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TECHNICAL MEMORANDUM
JUNE 1999 GROUNDWATER MONITORING REPORT

AMERICAN CHEMICAL SERVICE SUPERFUND SITE
GRIFFITH, INDIANA

Montgomery Watson File No. 1252042

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EXECUTIVE SUMMARY

The long term groundwater monitoring plan at the American Chemical Service, Inc. (ACS) National Priorities List (NPL) Site in Griffith, Indiana consists of semi-annual sampling of 44 wells in the monitoring network. In addition, three of the monitoring wells, MW48, MW49, and MW9R are sampled on a quarterly basis and five private wells in the vicinity of the Site are sampled once each year. For one of the semi-annual sampling events, the monitoring well samples are analyzed for the full Target Compound List and Target Analyte List (TCL/TAL) parameters. For the other semi-annual sampling event, the samples are analyzed for a reduced list of indicator parameters.

This Technical Memorandum summarizes the June 1999 groundwater monitoring activities at the ACS NPL Site. The June sampling combined the semi-annual 44-well sampling event with the collection of samples for the Monitored Natural Attenuation (MNA) study. All samples and analyses were conducted in accordance with the September 1997 U. S. Environmental Protection Agency (U.S. EPA)-approved sampling plan.

SITE HYDROGEOLOGY

The regional groundwater flow in the upper aquifer is from east to west in the vicinity of the ACS facility. At the ACS Site, the flow is diverted to the north and to the south by the barrier wall, installed as part of the ACS Remedy. The potentiometric surface to the northwest of the Site is relatively flat due to the effects of the Perimeter Groundwater Containment System (PGCS) trench, barrier wall, and discharge points from the groundwater treatment plant effluent. Depressed water levels in the Town of Griffith Landfill indicate the activity of the landfill's leachate collection system (LCS).

Horizontal groundwater flow in the lower aquifer is northward with a hydraulic gradient of 0.00038. This gradient and direction is consistent with previous lower aquifer data presented in previous groundwater monitoring reports.

Vertical gradients were calculated across three aquifer horizons: 1) the upper aquifer in the wetland area, 2) the upper and lower aquifers, and 3) the lower aquifer. All gradients were consistent with previous findings. Vertical gradients measured in the wetland area were upwards and were generally very low. Downward vertical gradients were measured between the upper and lower aquifer. Vertical gradients measured in the lower aquifer were low and variable; of the calculated gradients, five were downward, four were upward, and four were within the margin of potential error in water level measurement. Consistent vertical gradient trends are seen in two well nests in the lower aquifer, MW52/MW53 and MW28/PZ43; however, they are downward and upward, respectively. This variability indicates that there may not be an overall trend in vertical gradient data in the lower aquifer.

ANALYTICAL RESULTS – UPPER AQUIFER

For discussion purposes, the upper aquifer flow system was divided into three regions for analysis: the North Area, South Area, and the Griffith Landfill. The North Area extends northward from the north end of the Site near the On-Site Containment Area and west/northwest into the wetlands, and the South Area extends southeasterly from the barrier wall at the southern end of the Off-Site Area.

Twenty-three wells from the upper aquifer were sampled during June 1999. Several volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides/poly-chlorinated biphenols (Pest/PCBs), and inorganics were detected. Chloroethane and benzene were detected at significant concentrations at monitoring wells M4S, MW6, MW45, MW48, and MW49. Although acetone exceeded the baseline concentrations in wells MW19 and MW06, these analytes were also found in the laboratory blank and are probably a laboratory artifact. VOCs were either not detected or detected at low concentrations in the upgradient wells, edge wells, and downgradient North Area wells. Several SVOCs, Pest/PCBs, and inorganics were detected in the upper aquifer at very low concentrations.

Detection of VOCs, SVOCs, Pest/PCBs, and Inorganics were compared to the maximum baseline concentrations for each well. VOC baseline exceedances were detected in June samples from wells M-4S, MW6, and MW19. SVOC baseline exceedances were detected in wells M4S, MW19, and MW38. Pest/PCB exceedances were detected in well MW06. Based on statistical analysis of inorganic data, exceedances were detected in sixteen upper aquifer wells.

ANALYTICAL RESULTS - LOWER AQUIFER

In the lower aquifer, twenty-one wells were sampled during June 1999. VOCs, SVOCs, Pest/PCBs, and inorganics were detected in groundwater samples from these wells. Benzene and chloroethane continues to be detected in MW9R and MW10C. Benzene and chloroethane concentrations exceed baseline values in well MW10C (However, preliminary results from the laboratory indicate that the benzene and chloroethane concentrations in the sample decreased again in the September sample). None the detected SVOC or Pest/PCB detections exceeded their baseline values in the lower aquifer wells. Several inorganics exceeded the baseline levels in seventeen lower aquifer wells.

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1.0 INTRODUCTION

1.1 LONG TERM GROUNDWATER MONITORING PLAN

The long term groundwater monitoring plan, approved by U.S. EPA in September 1997, for the American Chemical Service, Inc. (ACS) National Priorities List (NPL) Site in Griffith, Indiana consists of two major (semi-annual) sampling events each year and two minor sampling events. The major sampling events consist of sample collection at 44 monitoring wells in the monitoring network. For one of the semi-annual sampling events, the groundwater samples are analyzed for full scan target compound list and target analyte list (TCL/TAL) parameters. For the other semi-annual sampling event, the samples are analyzed for a reduced list of indicator parameters. The indicator parameters are tetrachloroethene (PCE), trichloroethene (TCE), 1,1,1-trichloroethane (TCA), 1,2-dichloroethene (DCE), 1,2-dichloroethane (1,2-DCA), vinyl chloride (VC), chloroethane, benzene, arsenic, and lead.

The minor sampling events consist of sampling three monitoring wells within the monitoring network, which have shown variable contaminant concentrations during the baseline sampling. These include upper aquifer monitoring wells MW48 and MW49, and lower aquifer monitoring well MW9R. Samples from monitoring wells MW48 and MW49 are analyzed for the indicator parameters and the sample from MW9R is analyzed for the full TCL/TAL parameter list.

Once annually, samples are collected from five private wells near the Site and analyzed for the full TCL/TAL parameter list.

1.2 OBJECTIVES AND SCOPE OF JUNE 1999 SAMPLING

The June 1999 sampling event was a major sampling event consisting of sample collection at 44 monitoring wells. Thirty-seven samples were analyzed for the full TCL/TAL parameter list, and seven samples for the reduced list of indicator parameters. As part of the two year Monitored Natural Attenuation (MNA) study, groundwater samples were also collected from eight monitoring wells for biological parameter analysis.

The following requirements from the long-term groundwater monitoring plan apply to the June 1999 semi-annual sampling at the ACS NPL Site.

1. Collect water level data to monitor groundwater flow in the upper and lower aquifers and calculate the hydraulic gradients between the aquifers.

2. Collect water level data to document the performance of the Perimeter Groundwater Containment System (PGCS) and Barrier Wall Extraction System (BWES) and to evaluate changes in the groundwater flow system resulting from the remedial actions (these activities are outlined in the

Performance Standard Verification Plan, April 1997). The Groundwater Treatment Plant Quarterly Monitoring Report is submitted under separate cover and includes information on this objective.

3. Collect and analyze groundwater samples from upgradient monitoring wells in the upper and lower aquifer to document background groundwater quality.

4. Collect and analyze groundwater samples from the monitoring wells at the downgradient boundaries of the Site to closely monitor the status of the boundaries of groundwater impacts.

5. Collect and analyze groundwater samples from the interior of the areas of contaminated groundwater to document how concentrations change with time and in response to the remedial actions.

6. Assess progress toward attaining cleanup objectives in contaminated areas.

1.3 ORGANIZATION OF TECHNICAL MEMORANDUM

The results of the June 1999 groundwater monitoring activities at the ACS NPL Site are presented in the following sections of this report:

- Section 1 Objectives and scope of the groundwater monitoring activities
- Section 2 Field data collection activities
- Section 3 Evaluation of the June 1999 sampling data
- Section 4 Summary and Conclusions

Tables, figures, and appendices are presented at the end of this report.

A baseline sampling report was completed following the September 1997 sampling event and included a long-term Groundwater Monitoring Plan. In accordance with the U.S. EPA approved Groundwater Monitoring Plan, this Technical Memorandum compares the June 1999 groundwater analytical results to the highest detected concentrations observed for each well and parameter during the baseline sampling. This comparison table is found in Appendix A.

2.0 FIELD DATA COLLECTION ACTIVITIES JUNE 1999

Field activities were conducted from June 7 through June 16, 1999 at the ACS Site. The groundwater monitoring activities were conducted in accordance with the U.S. EPA-approved Specific Operating Procedures (SOPs), the draft Quality Assurance Project Plan (QAPP), and U.S. EPA comments regarding the draft QAPP. The June 1999 groundwater sampling event consisted of the following activities:

- Measurement of water levels in 149 upper and lower aquifer monitoring wells, piezometers, and staff gauges on June 7, 1999.

- Upper aquifer monitoring: collection of groundwater samples from 19 monitoring wells screened in the upper aquifer and analyses for TCL/TAL parameters; collection of groundwater samples screened in the upper aquifer from 4 monitoring wells for indicator parameters; and collection of groundwater samples from 8 monitoring wells screened in the upper aquifer and analyses for additional natural attenuation parameters.

- Lower aquifer monitoring: collection of groundwater samples from 18 monitoring wells screened in the lower aquifer and analyses for TCL/TAL parameters; and 3 monitoring wells for indicator parameters.

Groundwater samples were collected from June 9 through June 16, 1999.

2.1 WATER LEVELS

Water level measurements were collected at upper and lower aquifer wells, piezometers, and surface water staff gauges on June 7, 1999. The water level measurements were utilized to determine groundwater flow directions in the upper and lower aquifers, and vertical gradients both within and between the aquifers. Table 1 contains water level measurements, map coordinates (reference points), top of inside well casing elevations, and calculated groundwater elevations for the measurement points.

2.2 GROUNDWATER SAMPLING

The groundwater samples for the June 1999 event were sent overnight under chain-of-custody to CompuChem Laboratory, Cary, North Carolina, where they were analyzed for the analytical parameters summarized in Tables 2 and 3. The tables summarize well identification, well screen depth (lower aquifer only), area of groundwater contamination, location with respect to area of groundwater contamination, and monitoring parameters.

Prior to sampling, each monitoring well was purged using low-flow methods in accordance with the U.S. EPA approved Monitoring Well Sampling SOP for the Upper Aquifer Investigation (revision: March 21, 1997). Field parameters (pH, specific conductivity, temperature, dissolved oxygen (DO), oxidation-reduction potential, and turbidity) were measured and recorded during well purging activities. Table 4 presents a summary of the field parameter results.

3.0 EVALUATION OF JUNE 1999 SAMPLING DATA

3.1 GROUNDWATER FLOW SYSTEM DATA

Water table and potentiometric surface maps were developed for the upper and lower aquifers and the overall horizontal hydraulic gradient was calculated for the lower aquifer. Vertical hydraulic gradients were calculated across three aquifer horizons: 1) within the upper aquifer in the wetland area, 2) within the lower aquifer, and 3) between the upper and lower aquifers. The following sections present and discuss the general flow directions in the upper and lower aquifers and the calculated gradients.

Vertical hydraulic gradients were calculated for both the upper and lower aquifers using water level measurement data from adjacent wells and piezometers screened at different depths within each aquifer.

3.1.1 Groundwater Flow in the Upper Aquifer

The upper aquifer matrix is a homogeneous silty sand with no evidence of interlayering or bedding complexities. Little interpolation was required to develop detailed contour plots because of the large number of data points (8 staff gauges, 31 wells, and 73 piezometers). All water table maps developed for the ACS Site since the remedial investigation in 1991 have consistently shown the same general groundwater flow patterns. The contour lines defining the water table show consistent groundwater flow pathways from upgradient to downgradient areas.

The barrier wall has affected the groundwater flow by preventing groundwater flow directly to the west from the area east of Colfax Avenue. The natural regional groundwater flow is diverted north/northwest around the north end of the barrier wall and to the south/southeast. Figure 1 presents the upper aquifer water table elevations from data collected on June 7, 1999.

3.1.2 Vertical Gradients in the Upper Aquifer

Table 5 shows the upper aquifer vertical gradient calculations based on the June 1999 water level measurements. These are shown in their historical context in the tabulation below:

Piezometer Nest	March 1997	June 1997	Sept 1997	Dec 1997	June 1998	Sept 1998	Nov 1998	March 1999	June 1999
P64/P65	0.016	-0.062	0.022	0.016	0.020	0.016	0.016	0.018	0.014
P66/P67	-0.003	0.013	0.007	0.002	0.005	0.004	0.003	WU	0.006
P68/P69	0.010	0.002	0.003	0.007	0.003	0.005	WU	0.005	0.012
P70/P71	0.030	0.042	0.035	0.037	0.023	0.057	0.073	0.040	0.042

Notes:
WU = Within uncertainty of measurement technique.

As in the past, the vertical gradients in the upper aquifer were calculated by dividing the difference in head between nested piezometers by the vertical distance between screen midpoints. From these accumulated data, it is apparent that the vertical gradients are generally upward, which is the typical occurrence in a wetland area where groundwater discharges to the surface.

3.1.3 Groundwater Flow in the Lower Aquifer

The lower aquifer groundwater elevations listed in Table 1 were used to develop a potentiometric surface map for the lower aquifer (Figure 2). The groundwater flow in the lower aquifer is northward, consistent with historical groundwater data. The horizontal hydraulic gradient in the lower aquifer was calculated using the measured difference in head between MW50, located south of the Site, and MW52, located northwest of the Site in the wetlands. This difference, 0.92 feet on June 7 1999, was divided by the lateral distance between the two wells (2,429 feet). Based on this calculation, the horizontal hydraulic gradient in the lower aquifer is 0.00038. This is consistent with the relatively low gradients historically calculated for the lower aquifer, as summarized below.

Report of Hydraulic Gradient in Lower Aquifer		Horizontal Hydraulic Gradient
Technical Memorandum	(October 1995)	0.00041
Lower Aquifer Tech Memo	(September 1996)	0.00047
Groundwater Monitoring Report	(August 1996)	0.00047
Groundwater Monitoring Report	(November 1996)	0.00049
Groundwater Monitoring Report	(March 1997)	0.00040
Groundwater Monitoring Report	(June 1997)	0.00044
Groundwater Monitoring Report	(September 1997)	0.00035
Groundwater Monitoring Report	(December 1997)	0.00039
Groundwater Monitoring Report	(June 1998)	0.00042
Groundwater Monitoring Report	(September 1998)	0.00029
Groundwater Monitoring Report	(December 1998)	0.00024
Groundwater Monitoring Report	(March 1999)	0.00033
June 1999 Groundwater Monitoring Report		0.00038

3.1.4 Vertical Gradients in the Lower Aquifer

Seven nested well sets are screened in the lower aquifer. At each location, there are two or three monitoring wells and/or piezometers, each screened at a different depth within the lower aquifer. The depth intervals include the upper portion, the middle portion, and the lower portion.

The water levels measured in each of these wells (Table 1) were used to calculate vertical hydraulic gradients in the lower aquifer at each location. Table 6 summarizes the calculated vertical gradients. Calculated vertical gradients from June 1999 are shown in their historical context in the following tabulation:

Well/Piezometer Nest	June 1997	Sep 1997	Dec 1997	June 1998	Sep 1998	Nov 1998	Mar 1999	June 1999
MW7/PZ44	-0.0010	WU	-0.0005	WU	NA	WU	WU	WU
MW8/MW32	WU	NA	WU	WU	WU	-0.0033	0.0011	-0.0007
MW9R/MW34	WU	WU	WU	NA	WU	0.0006	WU	0.0037
MW30/MW33	WU	WU	-0.0040	NA	NA	WU	WU	-0.0058
MW28/PZ43	WU	WU	WU	0.0021	0.0045	0.0008	0.0011	0.0025
MW52/MW53	-0.0004	-0.0004	-0.0008	-0.001	-0.0006	-0.0008	-0.0012	-0.0008
MW54R/MW55	WU	WU	-0.0012	NA	NA	NA	-0.0069	-0.0077

Notes
WU = Within uncertainty of measurement technique
NA = A water elevation necessary for the calculation was not available.

The majority of the calculated vertical gradients across the lower aquifer indicate a downward gradient. However, most of the accumulated data are variable. The only consistent vertical gradients seen are observed at well nests MW28/PZ43 and MW52/MW53.

3.1.5 Vertical Gradient Between Upper and Lower Aquifer

Groundwater elevations from upper and lower aquifer monitoring points were utilized to calculate the vertical hydraulic gradient between the two aquifers at three locations (P28/MW8, P27/MW9R, and P8/MW7). These are summarized in Table 7 and are consistent with previous findings. Vertical gradients were calculated by dividing the difference in head between the upper and lower aquifer wells by the thickness of the clay-confining layer between the two wells. The results show that there is a relatively strong and downward gradient between the two aquifers. The average groundwater elevations in the upper and lower aquifers are approximately 631 and 623 feet above mean sea level (amsl), respectively. The confining clay layer between the upper and lower aquifer varies in thickness from greater than 30 feet in the south to less than 5 feet in the wetland to the northwest (MW10C area). The variability in calculated downward gradients are due, therefore, to the variable thickness of the clay confining layer rather than the difference in head between the upper to lower aquifer.

3.2 MONITORING WELL SAMPLE DATA

Groundwater samples were analyzed for full-scan TCL/TAL parameters, indicator parameters (PCE, TCE, TCA, DCE, 1,2-DCA, VC, chloroethane, benzene, arsenic, and lead), and natural attenuation parameters (sulfate, ortho-phosphate, total organic carbon (TOC), total kjeldahl nitrogen (TKN), nitrate, nitrite, ammonia, and biological oxygen demand (BOD)). The laboratory results were validated in accordance with U.S. EPA Region V guidelines, *U.S. EPA Contract Laboratory Program National Functional Guidelines For Organic Data Review (2/94)* and *Inorganic Data Review (2/94)*. Evaluation of the data is discussed in Section 4.0. Validation narratives and laboratory analytical reports for samples from the upper aquifer and the lower aquifer are provided in Appendices C and D, respectively.

The analytical results for the June 1999 quarterly sampling were evaluated for evidence of contaminant migration, changes in contaminant concentrations over time in response to remedial actions, and the presence of contaminants in the lower aquifer. Time trend plots for selected monitoring wells are presented in Appendix B. The following sections summarize the results of the organic analyses in the upper aquifer (Section 3.2.1), the organic analyses in the lower aquifer (Section 3.2.2), and the inorganic analyses in both aquifers (Section 3.2.3).

3.2.1 Groundwater Sampling Results in the Upper Aquifer

The ACS Site, except for the wetlands, has been identified as the source of groundwater contamination in the upper aquifer. The Site source areas are presently contained within the barrier wall, which contains the source and prevents future migration of contaminants to the adjacent areas. Because the source is contained, the groundwater monitoring program is focused on the adjacent areas not confined by the barrier wall. These surrounding areas are: the area north and west of the ACS Facility, referred to as the North Area; the area south/southeast of Colfax, referred to as the South Area; and the Town of Griffith Landfill, which covers the area to the southwest of the ACS Site.

Table 8 and Figure 3 present a summary of TCL organic compounds detected in upper aquifer groundwater samples collected from wells during the June 1999 sampling event.

3.2.1.1 VOCs

Figure 3 shows the location of VOC detections in the upper aquifer on a map of the area surrounding the ACS Site. The contamination in the three surrounding areas is comprised primarily of chloroethane and benzene. Methylene chloride was detected in one well, MW06. Other VOCs were detected less frequently and at relatively low concentrations.

North Area. The North Area is monitored by an array of groundwater wells located hydraulically upgradient of the North Area, within the North Area, at the edge (side gradient) of the North Area, and hydraulically downgradient from the edge of the North Area. These wells are as follows:

Upgradient (east/northeast of Site)	Interior (north of Site)	Side Gradient (north of Site)	Downgradient (north of Site)
MW11	MW13	MW39	MW37
MW12	MW48		MW38
MW40	MW49		

The contamination in the North Area is comprised primarily of chloroethane and benzene. Benzene was not detected in the groundwater in the upgradient wells. Benzene was detected at side-gradient well MW39, however, the estimated concentration of benzene (2 µg/L) is below the baseline concentration. During the December 1998 sampling event, benzene was detected in upgradient well MW12 at a concentration of 16 µg/L, which

exceeded its background level (10 µg/L). Since benzene was not detected again in the June sampling event, no increasing concentration trend is evident, and therefore no response action to the baseline exceedance at MW12 is necessary.

Chloroethane and benzene continue to be detected in two of the three interior wells, MW48 and MW49, with concentrations within the range of previous detections. Time trend plots for these compounds are found in Appendix B. The VOC concentrations for the interior wells in June 1999 do not exceed maximum baseline concentrations.

Chloroethane and benzene were not detected in interior well MW13. MW13 is located in the wetland area on the west side of the Site and is downgradient of interior wells MW48 and MW49 in which the highest chloroethane and benzene concentrations have historically been detected in the North Area. The following table summarizes historical chloroethane and benzene detections in MW13:

Monitoring Well MW13 (Upper Aquifer)

Sampling Date	Chloroethane		Benzene	
November 1996	97	µg/L	6	µg/L
March 1997	330	µg/L	170	µg/L
June 1997	570	µg/L	610	µg/L
September 1997	160	µg/L	33	µg/L
December 1997	20	µg/L	ND	
June 1998	82 J	µg/L	2.0 J	µg/L
December 1998	ND		ND	
June 1999	ND		ND	

Note
J qualifier indicates concentration is estimated.
ND indicates compound was not detected

South Area. The South Area is monitored by an array of groundwater wells located hydraulically upgradient of the South Area, within the South Area, at the edge (side gradient) of the South Area, and hydraulically downgradient from the edge of the South Area. These wells are as follows:

Upgradient (south/east of Site)	Interior (south/southeast of Site)	Side Gradient (south/southeast of Site)	Downgradient (southeast of Site)
MW18	MW6	MW41	MW15
	MW45	MW44	MW42
	MW19	MW47	MW43

As in the North Area, contamination in South Area wells primarily consists of chloroethane and benzene. These contaminants were not detected in upgradient, side-gradient, or downgradient wells, except for a relatively low, estimated detected concentration of benzene in well MW15, which was below maximum baseline concentrations.

Chloroethane and benzene were detected in interior wells MW6, MW19, and MW45. Neither concentrations for benzene or chloroethane exceeded baseline concentrations in these wells. Methylene chloride was detected in well MW6 at a concentration of 140 ug/L, which exceeds the maximum baseline concentration for this well. In accordance with the groundwater monitoring plan, we will wait until the next semi-annual sampling event to evaluate whether this is an increasing concentration trend. Acetone was detected at several wells in the South Area. Concentrations of acetone in wells MW6 and MW19 exceeded the maximum baseline concentration for these wells. However, acetone was detected in the blank for both of these samples and is a common lab contaminant. The concentrations of benzene and chloroethane detected at well MW6 have fluctuated over time. Since groundwater flow was changed the most by the barrier wall in the vicinity of MW06, we believe that this variability in concentration and compounds at MW06 are a result of this change in groundwater flow pattern.

Monitoring Well MW6 (Upper Aquifer)

Sampling Date	Chloroethane		Benzene	
November 1996	720	µg/L	320	µg/L
March 1997	67	µg/L	35	µg/L
June 1997	140	µg/L	39	µg/L
September 1997	140	µg/L	140	µg/L
December 1997	550 J	µg/L	1,900	µg/L
June 1998	350 J	µg/L	72 J	µg/L
December 1998	840	µg/L	930	µg/L
June 1999	78	µg/L	180	µg/L

Note
J qualifier indicates concentration is estimated.

The concentrations of chloroethane and benzene in MW45, interior to the South Area of contamination, appear to be decreasing, as shown in the following table.

Monitoring Well MW45 (Upper Aquifer)

Sampling Date	Benzene		Chloroethane	
August 1996	530	µg/L	82 J	µg/L
March 1997	1,045	µg/L	215	µg/L
June 1997	940	µg/L	120	µg/L
September 1997	860	µg/L	120	µg/L
December 1997	670	µg/L	130 J	µg/L
June 1998	670 J	µg/L	120 J	µg/L
December 1998	500	µg/L	88	µg/L
June 1999	360	µg/L	38	µg/L

Notes
J qualifier indicates concentration is estimated.
ND indicates compound was not detected

During the December 1998 sampling event, chloroethane was detected above the baseline concentration in MW19. Since it was not detected at concentrations above the baseline concentration during this event, it does not appear to be an increasing trend.

Griffith Landfill. The Griffith Landfill covers the area to the southwest of the Off-Site Containment Area of the Site. Three upper aquifer wells were sampled within the landfill area: Griffith Landfill wells M-1S and M-4S, and monitoring well MW15.

Chloroethane and benzene were detected in the sample collected at M-4S, located at the northeast boundary of the landfill. Benzene was also detected in wells at relatively low, estimated concentrations at M1S and MW15. None of the benzene concentrations exceeded the baseline concentrations. The concentration of chloroethane in M-4S (1,600 ug/L) exceeded the baseline concentration established at the well (1,300 ug/L). This concentration decreased from the previous event (2,000 ug/L; December 1998). Because M-4S is located on the Landfill property and groundwater quality at this location is strongly influenced by landfill activities, we will continue to monitor M4S to evaluate if the concentration of chloroethane continues to decrease.

3.2.1.2 SVOCs

The SVOC concentrations reported for the June 1999 groundwater monitoring activities were generally consistent with historical concentrations. SVOC compounds detected in groundwater samples collected from the upper aquifer monitoring wells included bis(2-chloroethyl)ether, 1,2-dichlorobenzene, 1,4-dichlorobenzene, 2-methylnaphthalene, 2,2'-oxybis(1-chloropropane), isophorone, naphthalene, 2,4-dimethylphenol. Phenol and bis(2-chlorohexyl)phthalate were also detected, but appear to be related to tubing used for sampling, or from laboratory artifacts. Table 8 summarized the TCL organic compounds detected in the upper aquifer.

Concentrations of SVOCs at wells M4S, MW19, and MW38 exceeded maximum baseline concentrations for those wells. Bis(2-chloroethyl)ether exceeded the baseline concentration at wells M4S and MW19. Compared to the December 1998 event, the concentration of bis(2-chloroethyl)ether in M4S has decreased, while the concentration of bis(2-chloroethyl)ether in MW19 has increased. Bis(2-chlorohexyl)phthalate was detected in MW38 (11 ug/L) above the baseline concentration for that well (10 ug/L). This minor exceedance appears to be random detection, consistent with the documented occurrence of laboratory contamination.

Fourteen of the SVOC groundwater samples collected in June 1999 were analyzed past their holding times, and many other samples were qualified due to laboratory problems (see Appendix C and D). As approved by U.S. EPA, there is no need to resample the wells for SVOCs again, since, as part of the ongoing long-term groundwater monitoring plan, these wells will be sampled again for SVOCs within the next six months.

3.2.1.3 Pesticides and PCBs

Several pesticides and PCBs were detected in upper aquifer groundwater samples collected in June 1999. These concentrations are very low and show no consistent pattern from one sampling event to the next. One pesticide, beta-BHC, was detected in well MW6 at a concentration of 0.36 ug/L, which exceeds the baseline concentration for that well (0.05 ug/L). However, beta-BHC was also found in the associated blank. Furthermore, pesticides and PCBs do not appear to be characteristic contaminants at the site.

3.2.1.4 Tentatively Identified Compounds (TICs)

Tentatively identified compounds (TICs) were detected in several upper aquifer monitoring wells. Most TICs are reported as unknown, however, benzene-related compounds were detected in MW40 and MW45, and tetrahydrofuran was identified in M4-S and MW06. Ether was a TIC in wells M-1S, MW6, MW13, MW19, MW46. 3,3,5-trimethyl-cyclohexane was found in MW06 and MW48. Unknown SVOCs TICs were identified in M4-S, MW06, MW13, MW15, MW18, MW19, MW38, MW39, MW41, MW42, MW43, MW44, MW45, MW46, MW47, and MW48. The complete listing of TICs for individual monitoring wells is compiled in Appendix C along with the upper aquifer analytical results.

3.2.2 Groundwater Sampling Results from the Lower Aquifer

Table 9 presents a summary of TCL organic compounds detected in groundwater samples collected from lower aquifer monitoring wells during the June 1999 sampling event.

3.2.2.1 VOCs

Figure 4 summarizes the VOC detections in groundwater samples collected from lower aquifer monitoring wells. Benzene was detected at three wells, MW09R, MW10C, and MW53, and chloroethane was detected at two wells, MW09R and MW10C. Acetone and methylene chloride were detected in 15 of the 21 lower aquifer wells, although they were also detected in the associated blank in 12 of the 15 wells. Except for in MW09R, MW10C, and MW53, the concentrations were relatively very low and estimated values.

Benzene was detected in MW9R at a concentration of 160 µg/L, which is below the baseline maximum concentration. Chloroethane was detected at 490 µg/L, which is also below the baseline concentration. The following tabulation shows the concentration of benzene since monitoring began in 1991.

MW9 VOC	Jan 1991	Jan 1995	Nov 1996	Mar 1997	Jun 1997	Sept 1997	Dec 1997	June* 1998	Dec* 1998	Mar* 1999	Jun* 1999
Benzene µg/L	<5	40	310	310	280	290	260	110	160	130	160

*sample collected from replacement well MW9R

Two other VOCs, acetone and methylene chloride, were detected in MW9R below baseline concentrations.

Concentrations of benzene (2,000 µg/L) and chloroethane (2,600 µg/L) in MW10C exceeded the baseline concentrations for that well. These concentrations are significantly

higher than the concentrations detected in December 1998. Acetone and methylene chloride were detected above maximum baseline concentrations in wells MW10C and MW53. Acetone was found in the laboratory blank associated with MW09R and MW53, while methylene chloride was found in the laboratory blank associated with MW10C. It is Montgomery Watson's opinion that acetone and methylene chloride measured in the sample from MW10C and MW53, are likely laboratory artifacts. The presence of benzene, chloroethane, acetone, and methylene chloride in MW9R, MW10C, and MW53 will be monitored in upcoming sampling events. (Due to the large increase in benzene and chloroethane in MW10C, Montgomery Watson contacted the laboratory in order to receive preliminary results for the September 1999 sampling event for MW10C. The laboratory indicated that the results for samples collected from MW10C in September 1999 were 83 µg/l for benzene and 88 µg/l for chloroethane. These results are similar to historical concentrations and are baseline concentrations).

3.2.2.2 SVOCs

SVOCs were analyzed from eighteen monitoring wells in the lower aquifer as part of the June 1999 groundwater monitoring activities. Two SVOCs were detected at very low and estimated concentrations in several wells: bis(2-ethylhexyl)phthalate and bis(2-chloroethyl)ether. None of the SVOC detections exceeded the maximum baseline concentrations. All the reported concentrations are estimated with the exception of bis(2-chloroethyl)ether (13 ug/L) in MW09R and bis(2-ethylhexyl)phthalate (14 ug/L) in MW53. Bis(2-ethylhexyl)phthalate was also found in the laboratory blank for two samples in the lower aquifer. Bis(2-chloroethyl)ether has been detected previously in MW09R at concentrations consistent with the most recently concentrations.

3.2.2.3 Pesticides and PCBs

Pesticides and PCBs were analyzed from eighteen wells in the lower aquifer as part of the June 1999 groundwater monitoring activities. Several pesticides were detected at all were at relatively low and estimated concentrations. About half of the detections were found in the laboratory blanks, and most had a "P" qualifier, which refers to an analytical inconsistency during Pest/PCB analysis. None of these compounds exceeded the baseline concentrations.

3.2.2.4 Tentatively Identified Compounds (TICs)

TICs were detected in several lower aquifer monitoring wells. The TICs primarily consist of ether, 1,4-dioxane, and tetrahydrofuran which were tentatively identified in ATMW4-D, MW9R, MW10C, MW33, MW51, MW52, and MW53. 3,3,5-trimethylcyclohexane was tentatively found in MW53. Unknown SVOCs TICs were identified in MW08, MW9R, MW10C, ATMW4-D, MW23, MW28, MW29, MW30, MW31, MW32, MW33, MW51, MW52, MW53, MW54R, and MW55. The complete listing of TICs for individual monitoring wells is compiled in Appendix D along with the other lower aquifer analytical results.

3.2.3 Inorganic Chemical Species

The June 1999 inorganic results are compiled in Appendix A along with the maximum baseline concentrations. Table 10 summarizes the baseline exceedances of the inorganic analyses during the June 1999 sampling event. Three-fourths of the wells, 33 of 42, had at least one inorganic exceedance of a baseline value, and about eighty percent of the inorganic species, 19 of 24, exceeded a baseline maximum in at least one well. There were no exceedances of aluminum, beryllium, lead, silver, or zinc, and these are not included on Table 10.

A total of 1,008 inorganic analyses were performed for the June 1999 groundwater sampling event (24 species at 42 wells). Of these, 89 detections (about 9%) exceeded the maximum concentrations recorded during the four quarters of baseline sampling. The first step in the evaluation of inorganic analyses is to screen out the 'statistical noise' and identify the occurrences that have potential statistical significance. The second step is to highlight the results that appear to have a correlation to or with groundwater impacts.

3.2.3.1 Significance

For at least three reasons, we can expect numerous, non-significant, baseline exceedances of inorganic species during post-baseline sampling events because: 1) inorganic species are naturally occurring; 2) experience shows that inorganic concentrations at a given sampling location vary over time; and 3) total metals analyses are conducted on unfiltered water samples, thus particulates introduce random variability, related to the sample turbidity. Simply stated, it is more likely than not that there will be an exceedance of an inorganic species at some time in the future at each monitoring well.

This report evaluates the significance of the current results by the total number of species that exceed the baseline in a given well during a sampling event, the recurrence of an exceedance from one sampling event to the next, and the magnitude of an individual exceedance. Restated:

Recurrence (R): An exceedance is considered potentially significant if it reoccurs consistently over several monitoring events.

Frequency (F): The inorganic results of a given well are considered potentially significant if more than 25 percent of the analyzed compounds in a sample exceed their baseline concentrations.

Magnitude (M): An exceedance is considered potentially significant if the current result is at least twice the concentration of the baseline maximum for the given specie at the given well.

During the June 1999 sampling event, 15 wells met the definitions of potential statistical significance. They include upper aquifer wells MW06, MW11, MW13, MW14, MW15, MW39, MW42, MW43, MW45, MW46, and MW49, and lower aquifer wells MW29,

MW30, MW50, and MW54R. The following summarizes the occurrences at each of these wells. See Table 10 for additional details.

Upper Aquifer Monitoring Wells:

MW06 R: *Ca* and *Mg* exceeded in June 1998 and June 1999.
F: N/A
M: *Cd* exceedance greater than twice the baseline maximum.

MW11 R: N/A
F: N/A
M: *As* exceedance greater than twice the baseline maximum.

MW13 R: *Mg* exceeded in June 1998 and June 1999.
F: N/A
M: N/A

MW14 R: *Cr* and *Ni* exceeded in June 1998 and June 1999.
F: there are 10 baseline exceedances
M: *As, Cr, Co, Fe, Ni, Se, Tl, V* exceedances greater than twice the baseline maximum.

MW15 R: *Co* exceeded in June 1998 and June 1999.
F: N/A
M: N/A

MW39 R: *Na* exceeded in June 1998 and June 1999.
F: N/A
M: N/A

MW42 R: *N/A*
F: N/A
M: *Sb* exceedance greater than twice the baseline maximum.

MW43 R: N/A
F: N/A
M: Cyanide exceedance greater than twice the baseline maximum.

MW45 R: *Fe* exceeded in June 1998 and June 1999.
F: N/A
M: *Cr* exceedance greater than twice the baseline maximum.

MW46 R: *Fe* and *Mn* exceeded in June 1998 and June 1999.
F: N/A
M: N/A

Lower Aquifer Monitoring Wells

MW29 R: N/A
F: N/A
M: *Sb* exceedance greater than twice the baseline maximum.

MW30 R: *Ba* exceeded in June 1998 and June 1999.
F: N/A
M: *N/A*

MW50 R: N/A
F: N/A
M: *Hg* exceedance greater than twice the baseline maximum.

MW54R R: *Na* exceeded in June 1998 and June 1999.
F: N/A
M: N/A

3.2.3.2 Relevance to Monitoring Objectives

The December 1997 groundwater report indicated 9 wells showed potential statistical significance: M-1S, M-4S, MW11, MW13, MW15, MW23, MW42, MW44, and MW47. Results from June 1999 sampling event show that 15 wells showed potential statistical significance: MW06, MW11, MW13, MW14, MW15, MW29, MW30, MW39, MW42, MW43, MW45, MW46, MW50, and MW54R. Between the two events, only wells MW11, MW13, and MW15 were repeated. In June 1998, MW11, MW13, and MW15 did not show potentially statistical significance. Therefore, this demonstrates that the baseline inorganic exceedances are most likely random occurrences and are unrelated to the site contamination effects.

3.3 NATURAL ATTENUATION SAMPLES

A two-phase field investigation is being conducted to collect data for a monitored natural attenuation study. The results of the field investigation will be evaluated for the following:

1. Temporal and spatial trends of contaminant degradation;
2. Temporal and spatial trends in daughter product and metabolic by-product concentrations;
3. The distribution and availability of electron acceptors such as oxygen, nitrate, and sulfate necessary for degradation to occur; and
4. Other factors such as the physical and chemical composition of the subsurface that may limit degradation.

The baseline phase of the natural attenuation study consisted of analyzing data from both soil and groundwater samples collected at the ACS Site. Montgomery Watson collected eight soil samples on January 27, 1998 as part of the investigation. Soil samples were collected from three locations in each plume from the middle of the upper aquifer:

downgradient of the plume, within the plume, and at the edge of the plume. The soil samples were analyzed for TOC, nitrite, nitrate, pH, sulfate, TKN, ammonia-nitrogen, ortho-phosphate, soil moisture holding capacity, percent air-filled pore space, comparative enumeration assays for aerobic total heterotrophs, aerobic hydrocarbon degraders, and acridine orange direct counts.

Groundwater wells located upgradient of each plume, within each plume, at the edge of each plume, and downgradient of the plume for each of the plumes have been sampled for evaluation of natural attenuation parameters (TOC, biochemical oxygen demand (BOD), nitrate-nitrogen, nitrite-nitrogen, sulfate, TKN, ammonia-nitrogen, and ortho-phosphate) beginning in June 1997. Eight quarters of biological groundwater data have been collected. Results of the biological analytical parameters for the June 1999 sampling event are summarized in Table 11. Field parameters are summarized in Table 4. A separate analysis and preliminary report for this data will be prepared and submitted under a separate cover following completion of the two-year quarterly sampling sequence.

4.0 SUMMARY AND CONCLUSIONS

4.1 SUMMARY OF GROUNDWATER FLOW SYSTEMS

The groundwater flow systems for both the upper and lower aquifers are consistent with previous quarterly monitoring events. Groundwater flow within the upper aquifer, in general, is from the east and is diverted by the barrier wall toward the north/northwest and south/southwest, around the ACS Site. Vertical gradients within the upper aquifer below the wetlands are upwards. Consistent with historical data, the groundwater flow within the lower aquifer is essentially northward. Vertical gradients measured within the lower aquifer were either low or variable. Vertical gradients between the upper and lower aquifers were downward as in the past. There were no significant changes or variations from the baseline groundwater flow system.

4.2 SUMMARY OF MONITORING WELL SAMPLE DATA

Indicator VOCs were detected in thirty-eight monitoring well samples collected from both the upper and lower aquifers. VOCs exceeded baseline concentrations in upper aquifer wells M4S, MW6, MW19. VOCs exceeded baseline concentrations in lower aquifer wells MW10C and MW53.

SVOCs were detected in twenty-two upper and lower aquifer wells. SVOCs exceeded baseline concentrations in upper aquifer wells M4S, MW19, and MW38. There were no baseline exceedances in the lower aquifer wells.

Pesticides and PCBs were detected in twenty-nine upper and lower aquifer samples. One pesticide, beta-BHC, exceeded the baseline concentration at MW06. There were no baseline exceedances in the lower aquifer wells.

Samples from fifteen monitoring wells showed potentially significant inorganic analytes: MW06, MW11, MW13, MW14, MW15, MW29, MW30, MW39, MW42, MW43, MW45, MW46, MW49, MW50, and MW54R.

Several TICS were detected in upper aquifer monitoring wells. Benzene-related compounds were detected in MW40 and MW45. Ether was tentatively identified in five upper aquifer monitoring wells, while tetrahydrofuran and 3,3,5-trimethylcyclohexane were tentatively identified in two upper aquifer wells. Ether, 1,4-dioxane, and tetrahydofuran were tentatively identified in seven lower aquifer wells. Several unknown SVOCs TICs were identified in several upper and lower aquifer wells.

The groundwater sample from lower aquifer well MW10C indicated a major increase in benzene and chloroethane concentrations. However, during the September 1999 sampling results showed that concentrations were near typical historical concentrations.

4.3 NATURAL ATTENUATION

Additional field and groundwater parameters were recorded and analyzed for the eight upper aquifer monitoring wells included in the natural attenuation study during the June 1999 sampling event. These results will be compiled with the other natural attenuation parameters and evaluated in a separate report

4.4 CONCLUSIONS

The following conclusions can be drawn for each objective of the Groundwater Monitoring Plan.

Objective 1 was to collect water level data to monitor groundwater flow in the upper and lower aquifers and to calculate the hydraulic gradients between the aquifers. The data collected indicates that groundwater flow directions and groundwater gradients for the June 1999 sampling event are consistent with past conditions for both the upper and lower aquifers.

Objective 2 was to collect water level data to document the performance of the PGCS and BWES and to evaluate changes in the groundwater flow system resulting from the remedial actions. The data indicate the barrier wall is containing the groundwater enclosed within the wall. In general, groundwater is from the east and is diverted toward the north/northwest and south/southeast. The groundwater is also diverted north/northwest around the north end of the barrier wall and is collected in the PGCS extraction trench or discharged to the drainage ditch (just beyond MW48). Groundwater diverted south flows toward the south/southeast. These observations are consistent with previous observations.

Objective 3 was to collect and analyze groundwater samples from upgradient monitoring wells in the upper and lower aquifers to document background groundwater quality. There were no detections in upgradient well MW12 and only low detections of a acetone and methylene chloride in MW18. Lower aquifer upgradient well MW50 only had low detections of acetone and methylene chloride. These detections are probably laboratory artifacts.

Objective 4 was to collect and analyze groundwater samples from downgradient monitoring wells in the upper and lower aquifers to assess the nature of the plume boundary. Sample analytical results indicate one exceedence of bis(2-ethylhexyl)phthalate at MW38, a downgradient well in the North Area. Response action to this baseline exceedance will be to wait until the next semi-annual sampling event to assess whether or not the baseline exceedance is part of a trend. Analytical results for the other samples

collected from the downgradient wells at the Site boundary in the upper and lower aquifer indicate that contaminant concentrations are below baseline values.

Objective 5 was to collect and analyze groundwater samples from the interior of the areas of contaminated groundwater to document how concentrations change with time and in response to the remedial actions. Analytical results for samples collected from the upper and lower aquifer wells indicate exceedances of baseline concentrations for organic compounds within the interior of the South Area and in the Landfill Area. SVOC and PCB exceedances were also found in the interior of these areas. Response action to the baseline exceedances will be to wait until the next semi-annual sampling event to assess whether or not the baseline exceedances are part of a trend. Inorganic baseline exceedances are attributed to statistical scatter and are not considered at this time since no trends have been seen related to site activities.

Objective 6 was to assess progress toward attaining cleanup objectives in the contaminated areas. Concentrations of benzene and chloroethane at monitoring well MW13 in the North Area have decreased to below detected limits, and have not been detected in the past two sampling events. Concentrations of benzene and chloroethane in MW48 and MW49 have generally decreased over the past several monitoring events, and may be related to ORC© injection and fluctuation in groundwater flow in that area. Concentrations of benzene and chloroethane at monitoring well MW45 in the South Area have shown decreasing trends over the past several monitoring events. Concentrations in MW06 have shown some variability, most likely due to changes in flow pattern resulting from installation of the barrier wall. Progress toward attaining cleanup objectives in contaminated areas continues to be evaluated.

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Table 1
Groundwater Level Gauging Points
American Chemical Service NPL Site - June 1999
Griffith, Indiana
Lower Aquifer Wells and Piezometers

Well Designation	Reference Points			Date:		Notes
	East	North	TOIC	level	Elevation	
MW28	5657	5696	648.77	24.82	623.95	
PZ42	5662	5696	648.44	24.50	623.94	
PZ43	5662	5702	648.69	24.68	624.01	
MW50	5269	5383	649.43	25.55	623.88	
PZ44	6170	6766	638.47	15.12	623.35	
MW7	6113	6732	641.46	18.10	623.36	
MW10C	5229	7554	637.45	14.26	623.19	
MW9R	4893	6990	639.05	15.80	623.25	
MW29	4886	7012	638.06	14.64	623.42	
MW34	4880	7002	638.14	14.71	623.43	
MW23	4717	7404	633.31	10.05	623.26	
MW24	4596	8033	635.22	12.57	622.65	
MW52	4996	7814	632.74	9.78	622.96	
MW53	4977	7833	632.87	9.95	622.92	
MW51	5198	7767	634.16	11.28	622.88	
MW30	5194	7774	634.25	11.39	622.86	
MW33	5189	7774	634.13	11.38	622.75	
MW54R	5590	7592	637.51	14.32	623.19	
MW55	5595	7604	636.63	13.83	622.80	
MW8	5934	7506	640.43	17.36	623.07	
MW31	5907	7505	641.64	18.58	623.06	
MW32	5902	7507	641.84	18.80	623.04	
M4D	4949	6538	633.32	9.89	623.43	
ATMW4D	5297	7311	637.99	14.77	623.22	

Table 1
Groundwater Level Gauging Points
American Chemical Service NPL Site - June 1999
Griffith, Indiana

Upper Aquifer Wells

Well Designation	Reference Points			Date:		Notes
	East	North	TOIC	level	Elevation	
MW6	5298	5520	655.28	21.44	633.84	
MW11	6377	7329	640.47	5.76	634.71	
MW12	6019	6352	642.74	7.50	635.24	
MW13	5050	7814	634.08	3.68	630.40	
MW14	4882	6995	638.56	8.46	630.10	
MW15	4721	5003	637.89	4.56	633.33	
MW18	5836	5746	644.89	8.98	635.91	
MW19	5231	4943	635.78	2.82	632.96	
MW37	5395	7976	636.78	4.97	631.81	
MW38	5903	8216	636.51	4.66	631.85	
MW39	6253	7947	637.77	4.68	633.09	
MW40	6349	6831	639.46	4.25	635.21	
MW41	6242	4517	632.74	5.16	627.58	
MW42	6264	3808	632.32	4.74	627.58	
MW43	5880	3719	633.56	5.33	628.23	
MW44	5390	4303	633.04	3.16	629.88	
MW45	5830	4388	635.35	5.93	629.42	
MW46	4526	7424	633.32	2.86	630.46	
MW47	5958	5084	640.54	6.07	634.47	
MW48	5669	7814	636.36	4.72	631.64	
MW49	5551	7650	637.00	5.34	631.66	
M1S	4362	5743	639.09	5.13	633.96	Griffith Landfilll Wells
M4S	4953	6537	633.42	3.84	629.58	Griffith Landfilll Wells

Staff Gauges

Well Designation	Reference Points			Date:		Notes
	East	North	TOSG	level	Elevation	
SG2	4423	6864	622.84	1.67	621.17	
SG7	5403	6889	637.01	1.05	635.96	
SG8R	5409	5252	634.70	1.07	633.63	
SG1	5023	6196	633.50	NM	NM	Ditch in which SG1 located has filled with sediment
SG3	4180	7123	631.17	1.49	629.68	
SG5	5464	7713	633.36	2.86	630.50	
SG6	4495	8075	632.97	2.35	630.62	
SG11	5859	8245	634.62	2.61	632.01	
SG12	5596	7867	634.12	3.00	631.12	

Table 1
Groundwater Level Gauging Points
American Chemical Service NPL Site - June 1999
Griffith, Indiana

Piezometers

Well Designation	Reference Points			Date:		Notes
	East	North	TOC	level	Elevation	
LW1	4807	5070	644.57	11.15	633.42	
LW2	4662	5465	649.70	16.11	633.59	
P3	5453	6470	639.87	4.47	635.40	
P4	5432	6228	639.25	NM	NM	Destroyed
P5	5285	6510	636.70	2.42	634.28	
P6	5150	6551	638.75	NM	NM	Destroyed
P7	5950	6630	643.63	8.31	635.32	
P8	6156	6734	639.27	4.06	635.21	
P9	6134	6994	638.88	3.96	634.92	
P10	5413	5852	649.32	14.39	634.93	
P11	5199	5900	649.14	14.25	634.89	
P12	5076	5723	650.08	NM	NM	Destroyed
P13	4878	5735	651.20	17.34	633.86	
P15	5003	6187	639.93	7.84	632.09	
P16	4673	5749	648.80	14.38	634.42	
P17	4584	6006	654.64	20.99	633.65	Inside Griffith Landfill
P18	4623	6224	649.84	5.23	644.61	Inside Griffith Landfill
P22	4636	6732	634.30	6.86	627.44	
P23	4689	7018	636.18	6.54	629.64	
P24	5002	7178	636.06	5.39	630.67	
P25	5131	7510	635.01	5.14	629.87	
P26	4764	7309	634.23	4.12	630.11	
P27	4904	7020	639.70	9.24	630.46	
P28	5883	7486	644.53	10.39	634.14	
P29	5738	6619	642.37	6.75	635.62	
P30	5626	6793	642.42	NM	NM	Destroyed
P31	5480	7159	641.03	4.05	636.98	
P32	5746	7026	642.32	6.80	635.52	
P35	5515	6572	641.44	NM	NM	Destroyed
P36	5410	6851	645.89	9.83	636.06	
P37	5330	6949	641.37	NM	NM	Destroyed
P38	5149	6992	639.87	NM	NM	Destroyed
P39	5940	6902	642.00	6.35	635.65	
P40	5931	7241	638.77	4.10	634.67	
P41	5663	7377	637.23	3.53	633.70	
P49	5145	6949	638.98	3.83	635.15	
P50	5129	6964	639.59	NM	NM	Destroyed
P51	3876	6859	635.07	5.34	629.73	
P52	4100	7845	636.66	6.39	630.27	
P53	4597	8015	636.18	5.60	630.58	
P54	4936	8081	638.28	6.55	631.73	
P55	5628	7979	636.08	5.11	630.97	
P56	6405	7665	639.46	5.03	634.43	
P59	6389	6590	639.22	3.91	635.31	
P60	6111	6051	640.23	4.97	635.26	
P61	5533	5284	638.58	5.26	633.32	
P62	5665	4945	637.06	4.84	632.22	
P63	5483	7689	637.70	6.64	631.06	
EW1	5113	6942	639.50	NM	NM	Destroyed
P64	4617	7065	634.87	5.42	629.45	
P65	4615	7063	634.77	5.25	629.52	
P66	4729	7034	636.02	6.39	629.63	
P67	4732	7034	636.06	6.38	629.68	
P68	4743	7752	634.48	3.77	630.71	
P69	4741	7751	634.66	3.88	630.78	
P70	4880	7680	635.38	5.13	630.25	
P71	4876	7682	635.32	4.82	630.50	

Table 1
Groundwater Level Gauging Points
American Chemical Service NPL Site - June 1999
Griffith, Indiana

New Piezometers - Upper Aquifer

Well Designation	Reference Points East	North	TOC	Date: level	Elevation	Notes
PGCS Piezometer Sets						
P81	5577	7581	636.19	4.80	631.39	
P82	5577	7572	635.77	4.64	631.13	
P83	5577	7562	635.95	4.60	631.35	
P84	5322	7603	634.35	3.90	630.45	
P85	5326	7594	634.08	3.36	630.72	
P86	5329	7585	634.41	3.88	630.53	
P87	5121	7466	633.88	3.99	629.89	
P88	5130	7460	633.90	4.56	629.34	
P89	5137	7454	634.02	4.20	629.82	
P90	4881	7152	632.59	2.86	629.73	
P91	4889	7145	632.97	3.30	629.67	
P92	4896	7138	633.63	3.83	629.80	
BWES Piezometer Pairs						
P93	5136	7067	638.79	6.65	632.14	
P94	5146	7061	638.98	NM	NM	Destroyed
P95	5146	6532	638.58	7.39	631.19	
P96	5156	6537	638.39	6.28	632.11	
P97	5098	6283	638.39	6.68	631.71	
P98	5130	6279	639.35	6.98	632.37	
P99	5020	5945	644.35	10.70	633.65	
P100	5031	5948	643.93	9.09	634.84	
P101	5550	5979	650.08	15.32	634.76	
P102	5517	5996	647.18	11.80	635.38	
P103	5672	6248	644.97	10.30	634.67	
P104	5639	6267	646.68	11.11	635.57	
P105	5885	6678	638.86	NM	NM	Graded over by ACS Facility
P106	5871	6685	638.10	NM	NM	Graded over by ACS Facility
P107	5766	7339	637.42	3.61	633.81	
P108	5757	7324	638.13	3.00	635.13	
ORC Piezometers				**level**	**Elevation**	**Notes**
ORC PZ1	5685	7574	638.57	6.65	631.92	
ORC PZ2	5758	7457	643.43	9.81	633.62	
ORC PZ3	5760	7540	640.24	7.08	633.16	
ORC PZ4	5827	7502	643.79	9.92	633.87	
ORC PZ5	5741	7753	636.21	4.34	631.87	
ORC PZ6	5759	7792	636.13	4.15	631.98	
ORC PZ7	5792	7839	635.85	3.95	631.90	
ORC PZ8	5813	7763	638.16	5.96	632.20	

All depth measurements and elevations are in units of feet.

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Table 2
Upper Aquifer Wells Sampled - June 1999
American Chemical Service Superfund Site
Griffith, Indiana

	Area of Groundwater Contamination	Well Identification	Location with Respect to Area of Groundwater Contamination	Monitoring Parameters June 1999
1	North	MW11	Side Gradient	IND
2		MW12	Side Gradient	IND
3		MW40	Side Gradient	IND/BIO
4		MW48	Internal	TCL/TAL/BIO
5		MW49	Internal	TCL/TAL
6		MW39	Side Gradient	TCL/TAL/BIO
7		MW37	Downgradient	TCL/TAL
8		MW38	Side Gradient	TCL/TAL/BIO
9	West	MW14	Internal	TCL/TAL
10		MW13	Internal	TCL/TAL
11		MW46	Side Gradient	TCL/TAL
12		M-1S	Griffith Landfill	IND
13		M-4S	Griffith Landfill	TCL/TAL
14	South	MW18	Upgradient	TCL/TAL/BIO
15		MW6	Internal	TCL/TAL
16		MW19	Internal	TCL/TAL/BIO
17		MW45	Internal	TCL/TAL/BIO
18		MW41	Side Gradient	TCL/TAL/BIO
19		MW44	Side Gradient	TCL/TAL
20		MW47	Side Gradient	TCL/TAL
21		MW15	Side Gradient	TCL/TAL
22		MW42	Downgradient	TCL/TAL
23		MW43	Downgradient	TCL/TAL

Notes:

IND: Arsenic, lead, VC, benzene, chloroethane, TCE, PCE, TCA, DCE, and 1,2-DCA.

TCL/TAL: Full scan Target Compound List and Target Analyte List Parameters

BIO: Sulfate, orthophosphate, total organic carbon (TOC), nitrate, nitrite, total kjeldahl nitrogen (TKN), ammonia, and biochemical oxygen demand (BOD).

Table 3
Lower Aquifer Wells Sampled - June 1999
American Chemical Service Superfund Site
Griffith, Indiana

	Well Identification	Well Screen Depth in Lower Aquifer	Location with Respect to Area of GW Contamination	Monitoring Parameters June 1999
1	MW28	Upper	Upgradient	TCL/TAL
2	MW50	Upper	Upgradient	TCL/TAL
3	MW7	Upper	Side Gradient	IND
4	MW10C	Upper	Internal	TCL/TAL
5	MW9R	Upper	Internal	TCL/TAL
6	MW29	Middle	Internal	TCL/TAL
7	MW34	Lower	Internal	IND
8	MW23	Upper	Downgradient	TCL/TAL
9	MW24	Upper	Downgradient	TCL/TAL
10	MW52	Upper	Downgradient	TCL/TAL
11	MW53	Lower	Downgradient	TCL/TAL
12	MW51	Upper	Downgradient	TCL/TAL
13	MW30	Middle	Downgradient	TCL/TAL
14	MW33	Lower	Downgradient	TCL/TAL
15	MW54R	Upper	Downgradient	TCL/TAL
16	MW55	Lower	Downgradient	TCL/TAL
17	MW8	Upper	Downgradient	TCL/TAL
18	MW31	Middle	Downgradient	TCL/TAL
19	MW32	Lower	Downgradient	TCL/TAL
20	M-4D	Upper	Griffith Landfill	IND
21	ATMW-4D	Upper	ACS Site	TCL/TAL

Notes:

IND: Arsenic, lead, VC, benzene, chloroethane, TCE, PCE, TCA, DCE, and 1,2-DCA.

TCL/TAL: Full scan Target Compound List and Target Analyte List Parameters

Table 4
Summary of Field Parameter Results - June 1999
American Chemical Service Superfund Site
Griffith, Indiana

Well ID	Field Parameters					
	pH (std. units)	Conductivity (adjusted to 25° C) (uS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)
M1S	6.76	2346	16.2	8.7	0.23	-613
M4S	6.52	2834	15.1	5.2	0.16	-590
M4D	7.51	1333	16.4	10.0	0.45	-535
MW06	6.5	2698	17.7	15.3	0.96	174
MW07	7.72	693.8	13.6	5.3	0.82	64
MW08	7.71	423	13.9	5.1	0.55	61
MW09R	7.36	891.8	15.1	41.8	0.45	80
MW10C	7.21	1658	12.9	30.1	0.47	106
MW11	6.24	242.2	15.5	157.9	0.82	278
MW12	6.85	381	16.6	44.9	0.36	-589
MW13	7.03	1170	12.6	4.8	0.20	110
MW14	6.73	386.4	17.0	474.5	0.28	249
MW15	7.3	4215	17.4	16.1	0.21	-611
MW18	7.19	666.7	14.0	0.0	2.11	-429
MW19	7.5	5705	20.1	21.5	0.06	-527
MW23	7.21	779	15.2	71.3	0.14	88
MW24	7.16	1114	14.2	37	0.89	138
MW28	7.62	710	17.5	0.0	0.62	-445
MW29	7.31	1129	13.8	26.4	0.96	115
MW30	7.43	956	15.8	32.7	0.54	99
MW31	7.42	696	14.7	44.7	0.37	77
MW32	7.41	799	13.0	2.9	1.30	88
MW33	6.71	2737	15.0	8.9	0.42	102
MW34	7.45	898.1	13.6	15.5	0.16	252
MW37	7.07	576.8	14.7	38.2	1.34	395
MW38	6.65	456	14.9	24.2	0.77	219
MW39	6.97	1468	16.3	4.6	1.30	139
MW40	6.34	191	13.6	18.3	1.25	210
MW41	6.72	344	20.4	8.2	3.51	298
MW42	7	877	14.3	5.9	0.56	199
MW43	6.68	935.2	18.3	34	0.91	159
MW44	7.68	815	14.3	1.9	1.30	206
MW45	7.01	1122	22.1	8.7	1.90	107
MW46	6.72	1337	14.7	2.6	0.30	103
MW47	5.41	96.5	21.2	4.9	2.31	390
MW48	6.9	711	19.8	35.4	1.60	95
MW49	6.87	692	13.6	14.2	0.03	111
MW50	7.48	2619	16.4	294.0	0.16	-503
MW51	6.89	1561	16.8	33.2	0.32	87
MW52	7.17	1474	13.4	27.0	1.54	124
MW53	6.74	3857	12.5	7.5	0.22	121
MW54R	7.46	1227	14.7	10.0	0.00	28
MW55	7.46	856	13.4	21.2	0.23	105
ATMW4D	7.46	976	21.0	46.0	1.04	-531

Notes:
NTU = nephelometric turbidity units

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Table 5
Vertical Gradients in Wetlands - June 1999
American Chemical Service Superfund Site
Griffith, Indiana

Piezometer Nest	Screen Interval		Screen Midpoint	Separation (feet)	Groundwater Elevation			Hydraulic Gradient
	Top	Bottom			Upper	Lower	delta	
P64	629.05	624.10	626.58	5	629.45			
P65	622.20	620.20	621.20			629.52	0.07	0.014
P66	629.45	625.10	627.28	8	629.63			
P67	620.50	618.50	619.50			629.68	0.05	0.006
P68	628.15	623.80	625.98	6	630.71			
P69	621.10	618.60	619.85			630.78	0.07	0.012
P70	628.55	624.20	626.38	6	630.25			
P71	621.00	619.00	620.00			630.50	0.25	0.042

Notes:
Water level measurements collected on June 7, 1999.
(-) = Downward Gradient
(+) = Upward Gradient
See *September 1997 Groundwater Sampling Results Report and Groundwater Monitoring Plan* (July 1998), p. 3, for an explanation of calculation method.

Table 6
Vertical Gradients in Lower Aquifer - June 1999
American Chemical Service, Inc. NPL Site
Griffith, Indiana

Well	Screen Interval		Separation	Lowest Measurable Gradient	Groundwater Elevation				Vertical Gradients		
Nest	Top	Bottom	(feet)		Upper	Middle	Lower	delta	Upper/ Middle	Middle/ Lower	Upper/ Lower
MW7	595.9	590.9			623.36						
PZ44	578.4	573.4	13	0.0008		623.35		-0.01	WU	NA	NA
MW8	598.2	593.2			623.07						
MW31	574.6	564.6	19	0.0005		623.06		-0.01	WU		
MW32	547.3	537.3	17	0.0006			623.04	-0.02		-0.0012	-0.0007
MW9R	605.9	600.9			623.25						
MW29	585.9	575.9	15	0.0007		623.42		0.17	0.0113		
MW34	552.8	542.8	23	0.0004			623.43	0.01		WU	0.0037
MW30	585.0	575.0	13	0.0008	NA	622.86			NA		
MW33	556.0	546.0	19	0.0005			622.75	-0.11		-0.0058	NA
MW28	588.7	578.7			623.95						
PZ42	568.5	563.5	10	0.0010		623.94		-0.01	WU		
PZ43	554.5	549.5	9	0.0011			624.01	0.07		0.0078	0.0025
MW52	615.6	605.6			622.96						
MW53	555.7	545.7	50	0.0002		NA	622.92	-0.04	NA	NA	-0.0008
MW54R	608.1	598.1			623.19						
MW55	547.6	537.6	51	0.0002		NA	622.80	-0.39	NA	NA	-0.0077

Notes:

Water levels collected by Montgomery Watson on June 7, 1999.

NA = Not Applicable. Calculating vertical gradient only for upper/lower interval at this location.

WU = Within uncertainty of measurement technique.

(-) = Downward Gradient

(+) = Upward Gradient

See *September 1997 Groundwater Sampling Results Report and Groundwater Monitoring Plan* (July 1998), p. 4, for an explanation of calculatior method.

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Table 7
Vertical Gradients Between Upper and Lower Aquifers
June 1, 1999
American Chemical Service Superfund Site
Griffith, Indiana

Well Designation	Screen Interval		Screen Midpoint	Separation (feet)	Groundwater Elevation			Hydraulic Gradient
	Top	Bottom			Upper	Lower	delta	
P28	634.30	629.30	631.80	11	634.14			
MW8	598.20	593.20	595.70			623.07	-11.07	-1.01
P27	631.02	626.02	628.52	23	630.46			
MW9R	605.90	600.90	603.40			623.25	-7.21	-0.32
P8	635.36	630.36	632.86	18	635.21			
MW7	595.90	590.90	593.40			623.36	-12	-0.66

Notes:
Water levels collected on June 7, 1999.
(-) = Downward Gradient
(+) = Upward Gradient
See *September 1997 Groundwater Sampling Results Report and Groundwater Monitoring Plan* (July 1998), p. 4, for an explanation of calculation method.

Table 8
Summary of Organic Compound Detections in the Upper Aquifer
Validated Results
June 1999
American Chemical Service Superfund Site

Parameter	M1S	M4S	MW6	MW-11	MW12	MW-13	MW14
VOCs (ug/L)							
Acetone		26 JB/JB	80 /JB			5 JB/JB	11 /JB
2-Hexanone							
2-Butanone			2 J/J				
4-Methyl-2-pentanone							
Chlorobenzene							
Vinyl Chloride							
Chloroethane		1600	78				
1,2-Dichloroethene (total)			1.0 J/J				
Methylene chloride		19 J/J	140.0			10 /JB	3 J/JB
Benzene	2 J/	180	180				
Ethylbenzene							
Toluene			1 J/J				
Xylenes							
SVOCs							
2,2'-oxybis(1-Chloropropane)	NA			NA	NA		
1,2-Dichlorobenzene	NA			NA	NA		
1,4-Dichlorobenzene	NA			NA	NA		
2-Methylnaphthalene	NA			NA	NA		
Bis(2-ethylhexyl)phthalate	NA			NA	NA	1 J/	
Bis(2-chloroethyl)ether	NA	72	13	NA	NA		
Naphthalene	NA			NA	NA		
2,4-Dimethylphenol	NA			NA	NA		
Isophorone	NA		3 J/J	NA	NA		
Phenol	NA			NA	NA		
PCBs/Pesticides							
4,4'-DDE	NA		0.0012 JP/JP	NA	NA		
4,4'-DDT	NA		0.0081 J/	NA	NA		
alpha-Chlordane	NA		0.0068 JP/JP	NA	NA		
alpha-BHC	NA	0.0083 JP/JP	0.0095 JP/JP	NA	NA		
beta-BHC	NA	0.016 JBP/JBP	0.36 BP/P	NA	NA	0.0055 JBP/JP	
delta-BHC	NA	0.0012 JP/JP	0.004 JP/JP	NA	NA		
gamma-BHC	NA	0.011 J/J	0.0066 JP/JP	NA	NA		
Aldrin	NA			NA	NA		
Dieldrin	NA		0.0069 JP/JP	NA	NA		
Endosulfan sulfate	NA			NA	NA		
Endrin	NA		0.021 JP/JP	NA	NA		
Endrin ketone	NA			NA	NA	0.0042 JBP/JP	
Endosulfan II	NA			NA	NA		
gamma-Chlordane	NA			NA	NA		
Heptachlor	NA		0.0043 JP/JP	NA	NA		0.0022 JP/JP
Heptachlor epoxide	NA			NA	NA		
Methoxychlor	NA			NA	NA		

Notes:
NA = Not analyzed for this parameter
_/_ = No data qualifier required
J/_ = Data qualifier added by laboratory
_/J = Data qualifier added by data validator
Data qualifers are defined in Appendix C.
A blank cell indicates the parameter was not detected.

Table 8
Summary of Organic Compound Detections in the Upper Aquifer
Validated Results
June 1999
American Chemical Service Superfund Site

Parameter	MW15	MW18	MW19	MW-37	MW-38	MW-39	MW-40
VOCs (ug/L)							
Acetone	4 J/J	5 JB/J	19 B/JB	5 J/J	5 JB/J	4 JB/J	
2-Hexanone			3 JB/JB				
2-Butanone			2 JB/JB				
4-Methyl-2-pentanone			3 JB/JB				
Chlorobenzene							
Vinyl Chloride							
Chloroethane			14 /J				
1,2-Dichloroethene (total)						2 J/	
Methylene chloride	5 J/J	4 J/J	3 J/J	4 J/J	7 J/J	7 J/J	8 NJ/
Benzene	3 J/J		7 J/J			2 J/	
Ethylbenzene						1 J/	
Toluene							
Xylenes						1 J/	
SVOCs							
2,2'-oxybis(1-Chloropropane)			4 J/J				NA
1,2-Dichlorobenzene							NA
1,4-Dichlorobenzene							NA
2-Methylnaphthalene							NA
Bis(2-ethylhexyl)phthalate			1 J/J		11		NA
Bis(2-chloroethyl)ether			23 /J				NA
Naphthalene							NA
2,4-Dimethylphenol							NA
Isophorone							NA
Phenol							NA
PCBs/Pesticides							
4,4'-DDE					0.0086 JP/JP		NA
4,4'-DDT					0.068 JP/JP		NA
alpha-Chlordane			0.0053 JP/JP				NA
alpha-BHC			0.0038 JP/JP				NA
beta-BHC	0.0081 JBP/JBP		0.022 JBP/JP	0.019 J/J			NA
delta-BHC	0.0016 JP/JP		0.0019 JP/JP		0.0056 JP/JP		NA
gamma-BHC	0.0033 JP/JP						NA
Aldrin	0.0021 JP/JP						NA
Dieldrin					0.0074 JP/JP		NA
Endosulfan sulfate					0.027 JP/JP		NA
Endrin					0.0068 JP/JP		NA
Endrin ketone					0.0064 JBP/JP		NA
Endosulfan II			0.0019 JP/JP				NA
gamma-Chlordane					0.0083 J/J		NA
Heptachlor	0.0074 JP/JP		0.0044 JP/JP		0.0083 JP/JP		NA
Heptachlor epoxide							NA
Methoxychlor		0.01 JP/JP			0.11 JB/J		NA

Notes:
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A blank cell indicates the parameter was not detected.

Table 8
Summary of Organic Compound Detections in the Upper Aquifer
Validated Results
June 1999
American Chemical Service Superfund Site

Parameter	MW-41	MW42	MW-43	MW-44	MW45	MW46
VOCs (ug/L)						
Acetone		3 JB/J	4 J/J	6 JB/J		
2-Hexanone						
2-Butanone						
4-Methyl-2-pentanone						
Chlorobenzene					17 J/	
Vinyl Chloride					38 J/	
Chloroethane						
1,2-Dichloroethene (total)						
Methylene chloride	2 J/J	3 J/J	2 J/J	2 J/J		3 J/J
Benzene					360	
Ethylbenzene						
Toluene						
Xylenes					16 J/	
SVOCs						
2,2'-oxybis(1-Chloropropane)					7 J/J	
1,2-Dichlorobenzene					4 J/J	
1,4-Dichlorobenzene					2 J/J	
2-Methylnaphthalene					0.5 J/J	
Bis(2-ethylhexyl)phthalate		2 J/J		6 J/J		
Bis(2-chloroethyl)ether					4 J/J	
Naphthalene					11 /J	
2,4-Dimethylphenol						
Isophorone						
Phenol					31 /J	
PCBs/Pesticides						
4,4'-DDE						
4,4'-DDT						
alpha-Chlordane						
alpha-BHC					0.0032 JP/JP	
beta-BHC			0.0045 JB/JB		0.0078 JP/JP	
delta-BHC						
gamma-BHC						
Aldrin				0.0018 JP/JP		
Dieldrin						
Endosulfan sulfate						
Endrin						
Endrin ketone						
Endosulfan II						
gamma-Chlordane				0.0011 JP/JP		
Heptachlor						
Heptachlor epoxide				0.0011 JP/JP		
Methoxychlor						

Notes:
NA = Not analyzed for this parameter
_/_ = No data qualifier required
J/_ = Data qualifier added by laboratory
_/J = Data qualifier added by data validator
Data qualifers are defined in Appendix C.
A blank cell indicates the parameter was not detected.

Table 8
Summary of Organic Compound Detections in the Upper Aquifer
Validated Results
June 1999
American Chemical Service Superfund Site

Parameter	MW47		MW48		MW49	
VOCs (ug/L)						
Acetone						
2-Hexanone			57	JBP/J		
2-Butanone						
4-Methyl-2-pentanone						
Chlorobenzene						
Vinyl Chloride						
Chloroethane			290	DJ/	220	DJ/DJ
1,2-Dichloroethene (total)						
Methylene chloride	2	J/J				
Benzene			5700	D/	2600	D/JD
Ethylbenzene						
Toluene						
Xylenes						
SVOCs						
2,2'-oxybis(1-Chloropropane)					9	J/J
1,2-Dichlorobenzene						
1,4-Dichlorobenzene						
2-Methylnaphthalene						
Bis(2-ethylhexyl)phthalate						
Bis(2-chloroethyl)ether			18			
Naphthalene						
2,4-Dimethylphenol			3	J/		
Isophorone					3	J/J
Phenol			87	D/	71	
PCBs/Pesticides						
4,4'-DDE						
4,4'-DDT						
alpha-Chlordane						
alpha-BHC			0.011	JP/JP		
beta-BHC						
delta-BHC					0.0019	JP/JP
gamma-BHC						
Aldrin						
Dieldrin						
Endosulfan sulfate						
Endrin						
Endrin ketone					0.0044	JBP/JP
Endosulfan II						
gamma-Chlordane						
Heptachlor			0.0018	JP/JP	0.0083	JP/JP
Heptachlor epoxide						
Methoxychlor						

Notes:
NA = Not analyzed for this parameter
_/_ = No data qualifier required
J/_ = Data qualifier added by laboratory
_/J = Data qualifier added by data validator
Data qualifers are defined in Appendix C.
A blank cell indicates the parameter was not detected.

Table 9
Summary of Organic Compound Detections in the Lower Aquifer
Validated Results
June 1999
American Chemical Service Superfund Site

Parameter	M4D	ATMW4D	MW07	MW08	MW09R	MW10C	MW23	MW24	MW28	MW29	MW30
VOCs (ug/L)											
2-Butanone											
4-Methyl-2-pentanone											
Acetone		4 JB/J			15 DJ/DJ	990 J/JB	7 J/J	4 JB/JB	4 JB/	2 J/J	3 J/J
Benzene					160 D/	2000					
Chloroethane					490 D/	2600					
Methylene Chloride		3 J/J		3 J/J	12 DJ/JB	130 J/JB	4 J/JB	4 J/JB	8 J/J	2 J/J	4 J/J
Toluene											
Ethyl Benzene									2 J/		
Xylenes (total)									2 J/		
SVOCs (ug/L)											
bis(2-Ethylhexyl)phthalate		1 J/J	NA			2 JB/JB			2 J/J	1 JB/JB	1 J/J
bis(2-Chloroethyl)Ether	NA		NA		13						
PCBs/Pesticides											
4,4'-DDD	NA		NA								
alpha-Chlordane	NA		NA		0.010 JP/JP				0.0025 JP/JP		
gamma-Chlordane	NA		NA							0.0018 JP/JP	
alpha-BHC	NA		NA								
beta-BHC	NA		NA			0.017 J/J		0.0096 JBP/JP			
delta-BHC	NA		NA		0.0053 JP/JP	0.0023 JP/JP		0.003 JP/JP		0.0045 JP/JP	
gamma-BHC	NA		NA			0.0012 JP/JP					
Endrine ketone	NA		NA								
Heptachlor	NA		NA				0.0022 JP/JP				
Methoxychlor	NA		NA								0.0066 JBP/

Notes:
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J/_ = Data qualifier added by laboratory
_/J = Data qualifier added by data validator
Data qualifiers are defined in Appendix C
A blank cell indicates parameter not detected.

Table 9
Summary of Organic Compound Detections in the Lower Aquifer
Validated Results
June 1999
American Chemical Service Superfund Site

Parameter	MW31	MW32	MW33	MW34	MW50	MW51	MW52	MW53	MW54R	MW55
VOCs (ug/L)										
2-Butanone			1 JB/					3 JB/JB		
4-Methyl-2-pentanone								3 JB/JB		
Acetone	2 JB/J	2 JB/J	8 JB/JB		2 JB/JB			30 B/JB	6 JB/J	3 JB/J
Benzene								4 J/J	1 J/	
Chloroethane										
Methylene Chloride	2 J/J	2 J/J	9 J/J		3 J/	8 J/J		100 /J	3 J/J	3 J/J
Toluene								1 J/J		
Ethyl Benzene										
Xylenes (total)										
SVOCs (ug/L)										
bis(2-Ethylhexyl)phthalate	2 J/J	2 J/J	1 J/J	NA			6 J/J	14		2 J/J
bis(2-Chloroethyl)Ether				NA						
PCBs/Pesticides										
4,4'-DDD			0.0024 JP/JP	NA						
alpha-Chlordane			0.0014 JP/JP	NA						
gamma-Chlordane				NA						
alpha-BHC				NA		0.0015 JP/JP				
beta-BHC	0.014 JP/JP		0.017 JBP/JB	NA	0.009 JBP/JP				0.012 JBP/	0.016 JBP/JP
delta-BHC	0.0013 JBP/JP			NA	0.00098 JBP/JP		0.0025 J/J	0.0082 J/J	0.0018 JB/	0.0023 JBP/JP
gamma-BHC			0.0025 JP/JP	NA						
Endrine ketone				NA			0.0038 JBP/JP	0.0069 JBP/JP		
Heptachlor			0.007 JP/JP	NA				0.0085 JP/JP		
Methoxychlor			0.0036 JBP/JP	NA	0.0063 JBP/JBP					

Notes:
NA = Not analyzed for this parameter
_/_ = No data qualifier required
J/_ = Data qualifier added by laboratory
_/J = Data qualifier added by data validator
Data qualifiers are defined in Appendix C
A blank cell indicates parameter not detec

Table 10
Summary of Inorganic Baseline Exceedances
June 1999 Groundwater Monitoring

Well	Potentially Statistically Significant Jun-98	Potentially Statistically Significant Jun-99	Antimony		Arsenic		Barium		Cadmium		Calcium		Chromium (Total)		Cobalt		Copper		Cyanide (Total)		Iron		Magnesium		Manganese		Mercury		Nickel		Potassium		Selenium		Sodium		Thallium		Vanadium		Total Number of EXCEEDANCES
			Jun-99	Baseline	Jun-99	Baseline	Jun-99	Baseline	Jun-99	Baseline	Jun-99	Baseline	Jun-99	Baseline	Jun-99	Baseline	Jun-99	Baseline	Jun-99	Baseline	Jun-99	Baseline	Jun-99	Baseline	Jun-99	Baseline	Jun-99	Baseline	Jun-99	Baseline	Jun-99	Baseline	Jun-99	Baseline	Jun-99	Baseline	Jun-99	Baseline	
UPPER AQUIFER WELLS																																					
M-1S	R,M																																				0
M-4S	M		3.2	*2*					1.8	*1*																					3.1	2					3
MW06	M	R, M	3.2	*2.1*					2.1	*1*	260000	*216000*											45700	*37600*							3.1	2					5
MW11		M			4.2	*2*																															1
MW12																																					0
MW13		R			2.2	*2*	83.2	*69*	1.2	*1*											7620	*6090*	48900	*37000*	813	*674*											6
MW14		F, M, R	2.9	*2.3*	67.2	*11*							185	*36*	24.7	*12*	33.8	*32*			98700	*33000*							128	*29*			6.6	2.3			10.9	*3*	98.2	*34*	10
MW15		R													5.5	*5.1*															124000	*122000*	3.1	2	495000	*459000*			1.9	*1.5*	5
MW18			3.3	2											2.5	*1.7*																							2
MW19							764	*673*																									3.1	2							2
MW37																																							0
MW38																																							0
MW39		R																																154000	*123000*					1
MW40																																							0
MW41	M																																						0
MW42		M	26.2	2																																			1
MW43		M																	40.6	*10*														14700	*13100*					2
MW44									1.1	*1*																								26400	*20800*					2
MW45	M	M, R	2.1	2									64.1	*29*							16600	*15900*											3.1	2					4
MW46	M	R					146	*132*			135000	*115000*									33000	*21700*	37500	*32400*	1810	*1510*													5
MW47			2.3	2																																			1
MW48																																							0
MW49		M	42.4	2																	32600	*28700*	11900	*11800*							3.5	2			8	*3*			5
LOWER AQUIFER WELLS																																							
M-4D																																							0
MW07																																							0
MW08																																	14200	*13500*					1
MW09R																															3.1	2							1
MW10C																															3.1	2							1
MW23			2.3	2																																			1
MW24			3.7	2																													106000	*95600*					2
MW28																																	19100	*16400*					1
MW29	M	M	60.2	2									30.1	*24*															51	*31*									3
MW30		R	2.6	2			228	*210*																									49600	*40900*					3
MW31							272	*246*															35600	*35100*									21700	*19800*					3
MW32																							49300	*48000*															1
MW33			2.3	2					1.5	*1.4*																													2
MW34	M						187	*176*															53400	*51000*															2
MW50		M	2.3	2									146	*130*													1.1	*0.2*	109	*105*			3.1	2					5
MW51																																	3.1	2					1
MW52																																							0
MW53									1.4	*1*																													1
MW54R		R					237	*190*	1.1	*1*	139000	*132000*											60900	*54100*											38300	*28700*					5
MW55																							53600	*48500*															1
		Number of Exceedances	14		3		7		7		3		4		3		1		1		5		9		2		1		3		1		11		10		2		2		89

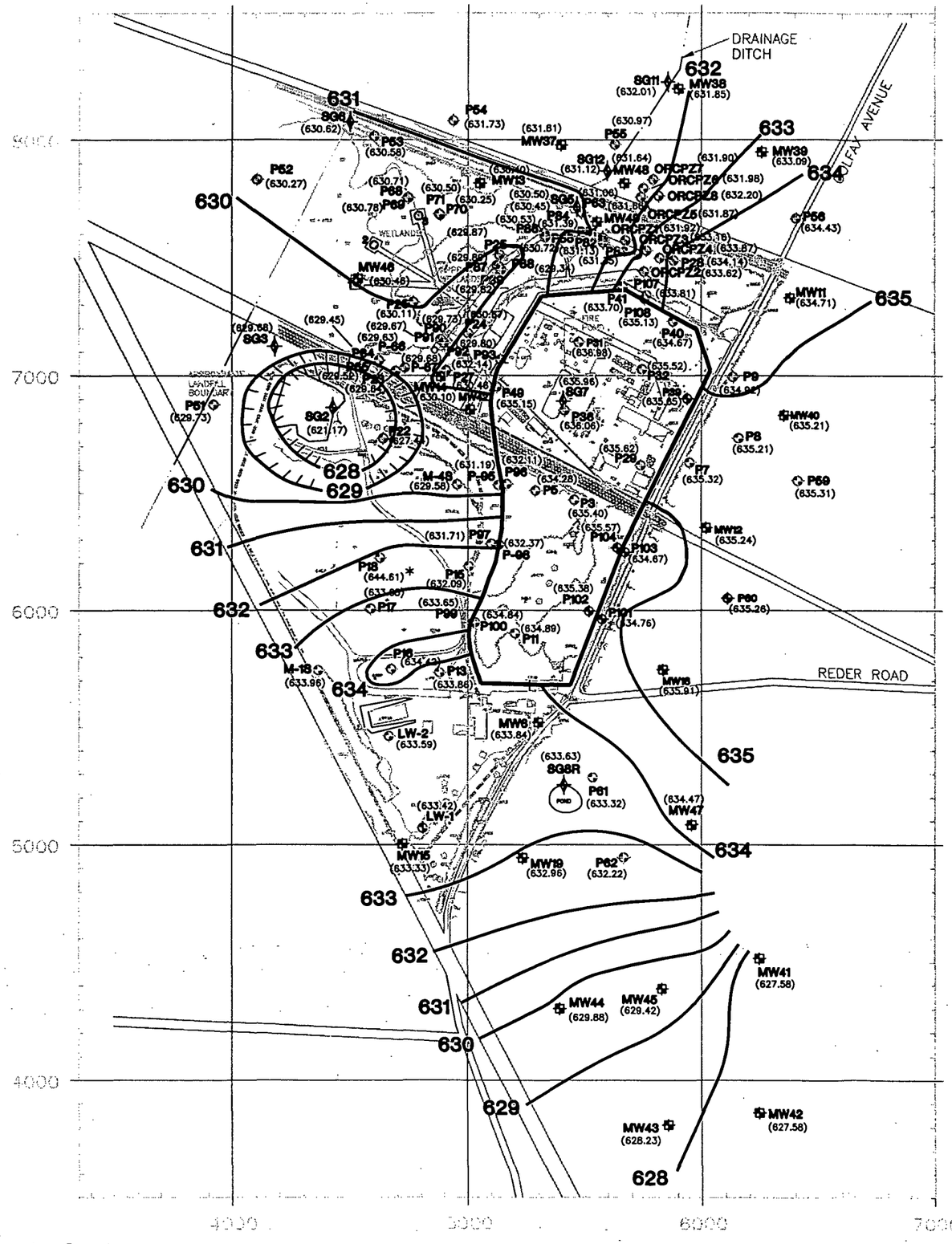
Notes:

1. See Appendix B for complete listing of inorganic analyses results
2. Boxed numbers indicate that the inorganic species in the June 1999 results exceeded the maximum baseline concentraton for that specie by a factor of 2x or more.
3. Blank cells indicate that for the June 1999 sampling round, the inorganic specie did not exceed the baseline maximum
4. Aluminum, beryllium, lead, silver, and zinc are not included on this table because there were no June 1999 exceedances of the Baseline by these species
5. R = Recurrence: Sample results are potentially statistically significant due to recurrence of exceedance
6. F = Frequency: Sample results are potentially statistically significant due to the frequency of exceedance (>25% or 7 individual analytes)
7. M = Magnitude: Sample results are potentially statistically significant due to magnitude of exceedance (>2x maxium baseline)

Table 11
Summary of Natural Attenuation Sample Results
June 1999
American Chemical Services Superfund Site
Griffith, Indiana

Analyte	Results (ug/L)							
	MW18	MW19	MW38	MW39	MW40	MW41	MW45	MW48
Ammonia	<200	41,500	<200	2,900	<200	<200	1,000	4,000
Biological Oxygen Demand	<2000 /J	3,800	3,400 /J	2,900 /J	<2000 /J	<2000	2,900	11,000 /J
Nitrate/Nitrite	10,400	160	180	170	590	220	140	140
Nitrogen (Kjeldahl)	400	44,900	700	3,500	300	<200	1,600	5,100 /J
Organic Carbon (total)	3,200	32,400	13,000	7,100	6,000	2,100	7,100	8,100
Ortho-phosphate	330	<20	880	690	870	460	810	550
Sulfate	46,700	<5000	25,600	26,200	31,900	36,600	<5000	8,000

Notes:
_/_ = No data qualifer required
J/_ = Data qualifer added by laboratory
_/J = Data qualifer added by data validator



LEGEND

- MW12 — UPPER AQUIFER WELL LOCATION AND DESIGNATION
- M-18 — LEACHATE WELL LOCATION AND DESIGNATION
- P61 — PIEZOMETER LOCATION AND DESIGNATION
- SG10 — STAFF GAUGE LOCATION AND DESIGNATION
- 3 — SURFACE DISCHARGE LOCATION FOR PERIMETER GROUND WATER CONTAINMENT SYSTEM
- ORCPZ1 — ORC PIEZOMETER LOCATION AND DESIGNATION
- (632.00) — GROUNDWATER ELEVATION
- (632.00)* — GROUNDWATER ELEVATION MEASURED BUT NOT USED FOR DETERMINATION OF THE POTENTIOMETRIC SURFACE
- 630 —— GROUNDWATER ELEVATION CONTOUR BASED ON GROUNDWATER ELEVATION DATA
- ——— BARRIER WALL
- PERIMETER GROUND WATER CONTAINMENT SYSTEM
- – – – – GRIFFITH LANDFILL BOUNDARY

NOTES

1. GROUNDWATER ELEVATIONS FOR WATER TABLE CONTOURS WERE MEASURED AT THE SITE ON JUNE 7, 1999.

north

0 500 1000

SCALE IN FEET

FIGURE 1

UPPER AQUIFER WATER TABLE MAP

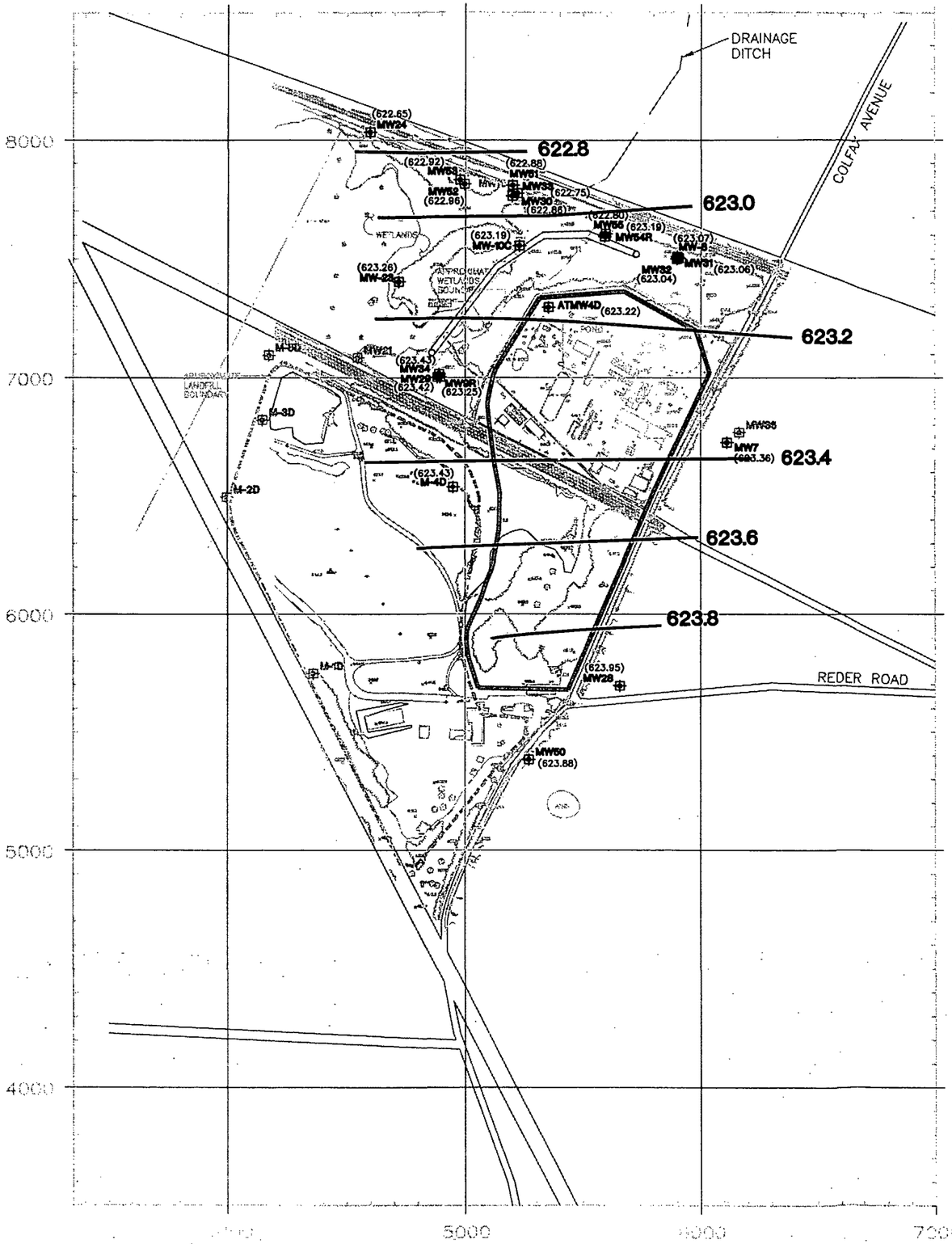
JUNE 1999 GROUNDWATER MONITORING RESULTS REPORT
AMERICAN CHEMICAL SERVICE, INC.
NPL SITE
GRIFFITH, INDIANA

Developed By JMK
Drawn By
Approved By
Date
Reference: J:/1252/042/MWDWGS/JUNE99/UPPER_CONTOUR2.dwg
Revisions

Drawing Number
1252042
221601

MONTGOMERY WATSON

Management Review
Other
Technical Review
Project Manager
Graphic Standards
Lead Professional
QUALITY CONTROL



LEGEND

- BARRIER WALL
- PERIMETER GROUND WATER CONTAINMENT SYSTEM
- GRIFFITH LANDFILL BOUNDARY
- MW53 — LOWER AQUIFER WELL LOCATION AND DESIGNATION
- (632.00) — GROUNDWATER ELEVATION
- 623.6 — GROUNDWATER ELEVATION CONTOUR BASED ON GROUNDWATER ELEVATION DATA (DASHED WHERE INFERRED)

NOTE

GROUNDWATER ELEVATIONS FOR POTENTIOMETRIC SURFACE CONTOURS WERE MEASURED ON JUNE 7, 1999

north

0 500 1000

SCALE IN FEET

FIGURE 2

Developed By | Drawn By

Approved By | Date

Reference J:/1252/042/MWDWGS/JUNE99/LOWER_CONTOUR.dwg

Revisions

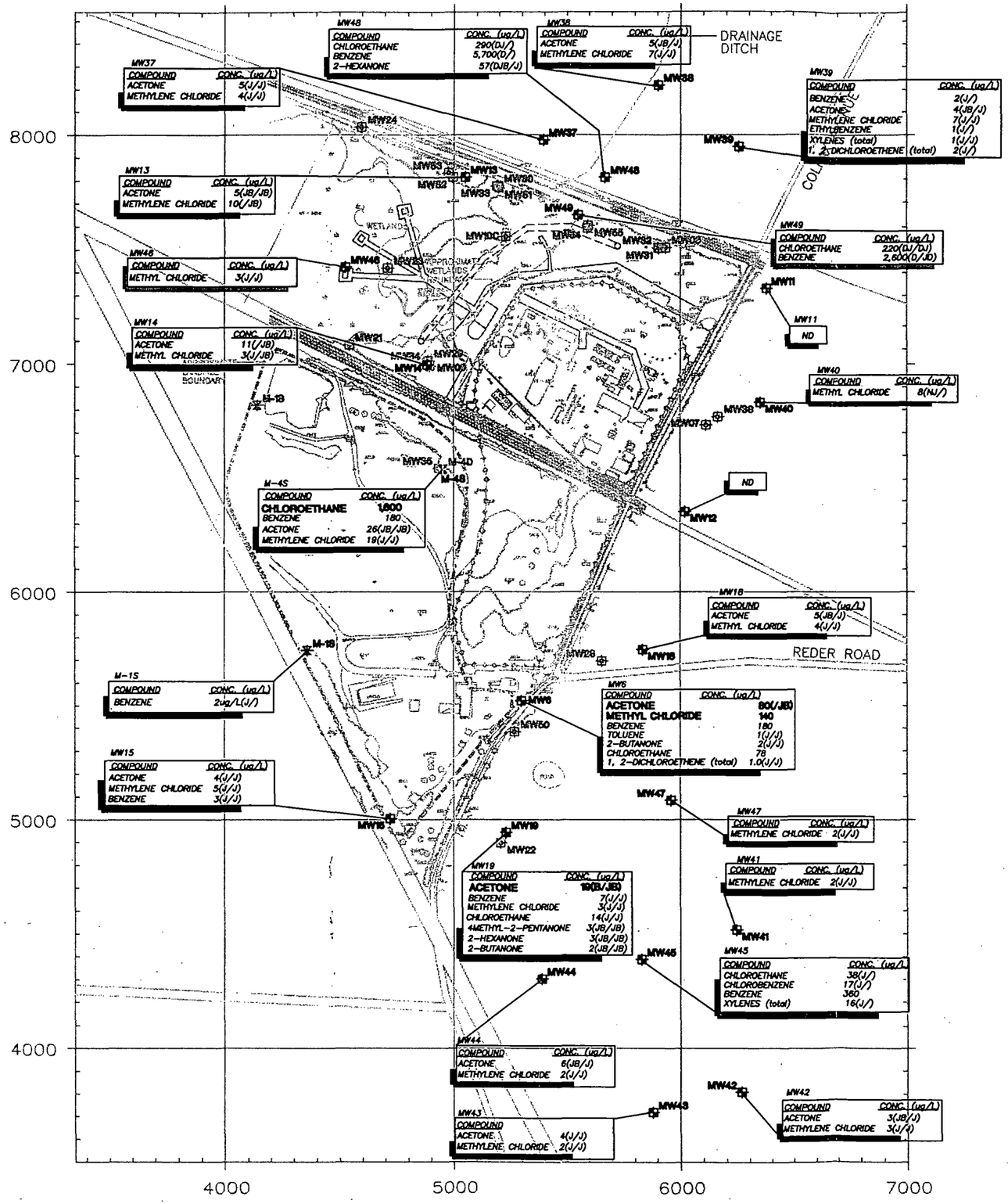
LOWER AQUIFER POTENTIOMETRIC SURFACE

JUNE 1999 GROUNDWATER SAMPLING RESULTS REPORT
AMERICAN CHEMICAL SERVICE, INC.
NPL SITE
GRIFFITH, INDIANA

Drawing Number
1252042
221602 2

MONTGOMERY WATSON

QUALITY CONTROL
Graphic Standards
Lead Professional
Technical Review
Project Manager
Management Review
Other



LEGEND

MW-12	UPPER AQUIFER WELL LOCATION AND DESIGNATION
MW03	LEACHATE/LOWER AQUIFER WELL LOCATION AND DESIGNATION
ug/L	MICROGRAMS PER LITER
(J/)	INDICATES AN ESTIMATED VALUE (LAB)
(/J)	INDICATES AN ESTIMATED VALUE (VALIDATED)
(D)	INDICATES AN ESTIMATED VALUE (LAB/VALIDATED)
(B)	INDICATES AN ESTIMATED VALUE (LAB/VALIDATED)
(N)	INDICATES PRESENCE OF ANALYTE IS PRESUMPTIVE (LAB/VALIDATED)
(/)	INDICATES NO DATA QUALIFIER NECESSARY
ND	NO VOC DETECTED
◆—◆—◆	BARRIER WALL
⊏=⊐	PERIMETER GROUND WATER CONTAINMENT SYSTEM
— — —	GRIFFITH LANDFILL BOUNDARY

NOTE

THE CONCENTRATION (AND ASSOCIATED COMPOUND) SHOWN IN BOLD EXCEEDED BASELINE LEVELS

north

0 500 1000

SCALE IN FEET

FIGURE 3

VOCs DETECTED IN UPPER AQUIFER MONITORING WELLS

JUNE 1999 GROUNDWATER MONITORING RESULTS REPORT
AMERICAN CHEMICAL SERVICE, INC.
NPL SITE
GRIFFITH, INDIANA

Developed By JMS Drawn By RC
Approved By TLH Date 10/25/99
Reference J:/1252/042/MWDWGS/JUNE99/SPIDY_UPPER_JUNE_99.dwg
Revisions

Drawing Number 1252042 3

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Management Review
Technical Review
Project Manager
Graphic Standards
Lead Professional
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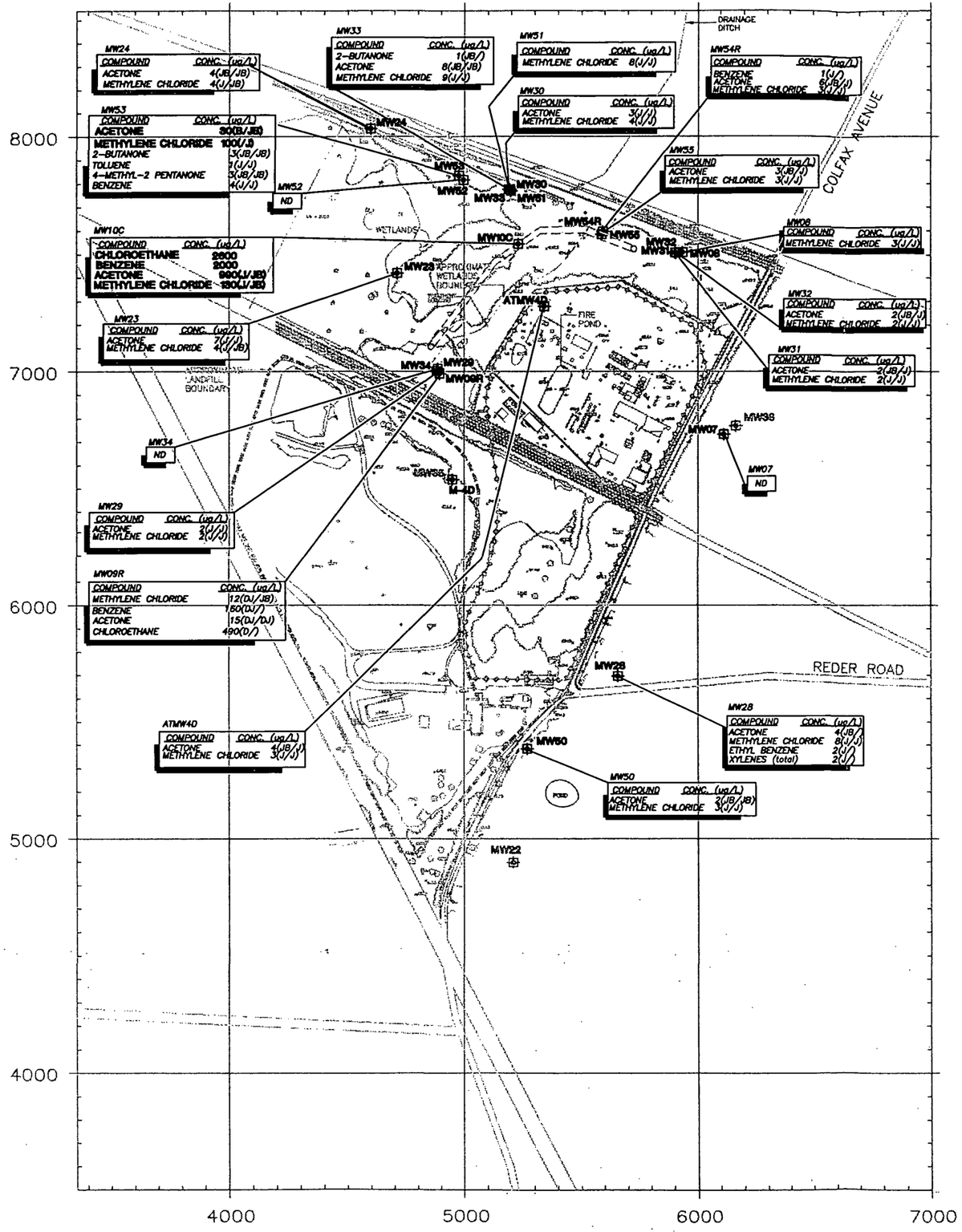
PJV



LEGEND

MW12	LOWER AQUIFER MONITORING WELL LOCATION AND DESIGNATION
ug/L	MICROGRAMS PER LITER
(J/)	INDICATES AN ESTIMATED VALUE (LAB)
(/J)	INDICATES AN ESTIMATED VALUE (VALIDATED)
(D)	INDICATES SAMPLE WAS DILUTED (LAB/VALIDATED)
(B)	INDICATES COMPOUND FOUND IS ASSOCIATED BLANK (LAB/VALIDATED)
(/)	INDICATES NO DATA QUALIFIER NECESSARY
ND	NO VOC DETECTED
◇◇◇◇◇◇◇	BARRIER WALL
⊂=====⊃	PERIMETER GROUND WATER CONTAINMENT SYSTEM
– – – –	GRIFFITH LANDFILL BOUNDARY

NOTE

THE CONCENTRATION (AND ASSOCIATED COMPOUND) SHOWN IN BOLD EXCEEDED BASELINE MAXIMUM CONCENTRATIONS

north

0 500 1000

SCALE IN FEET

FIGURE 4

Developed By JMS Drawn By RC

Approved By TLH Date OCT/99

Reference J:\1252\042\mwgwgs\june99\spidy_lower2_june_99.dwg

Revisions

VOCs DETECTED IN LOWER AQUIFER MONITORING WELLS

JUNE 1999 GROUNDWATER MONITORING RESULTS REPORT
AMERICAN CHEMICAL SERVICE, INC.
NPL SITE
GRIFFITH, INDIANA

Drawing Number
1252.042 4

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APPENDIX A

COMPARISON OF JUNE 1999
RESULTS TO BASELINE MAXIMUM CONCENTRATIONS

Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
ATMMW-4I	1,1,1-Trichloroethane	UG/L			U		10
ATMMW-4I	1,1,2,2-Tetrachloroethane	UG/L			U		10
ATMMW-4I	1,1,2-Trichloroethane	UG/L			U		10
ATMMW-4I	1,1-Dichloroethane	UG/L			U		10
ATMMW-4I	1,1-Dichloroethene	UG/L			U		10
ATMMW-4I	1,2-Dichloroethane	UG/L			U		10
ATMMW-4I	1,2-Dichloroethene (total)	UG/L			U		10
ATMMW-4I	1,2-Dichloropropane	UG/L			U		10
ATMMW-4I	2-Butanone	UG/L			U		10
ATMMW-4I	2-Hexanone	UG/L			U		10
ATMMW-4I	4-Methyl-2-pentanone	UG/L			U		10
ATMMW-4I	Acetone	UG/L		4	JB	J	10
ATMMW-4I	Benzene	UG/L			U		10
ATMMW-4I	Bromodichloromethane	UG/L			U		10
ATMMW-4I	Bromoform	UG/L			U		10
ATMMW-4I	Bromomethane	UG/L			U		10
ATMMW-4I	Carbon disulfide	UG/L			U		10
ATMMW-4I	Carbon Tetrachloride	UG/L			U		10
ATMMW-4I	Chlorobenzene	UG/L			U		10
ATMMW-4I	Chloroethane	UG/L			U		10
ATMMW-4I	Chloroform	UG/L			U		10
ATMMW-4I	Chloromethane	UG/L			U		10
ATMMW-4I	cis-1,3-Dichloropropene	UG/L			U		10
ATMMW-4I	Dibromochloromethane	UG/L			U		10
ATMMW-4I	Ethyl Benzene	UG/L			U		10
ATMMW-4I	Methylene chloride	UG/L		3	J	J	10
ATMMW-4I	Styrene	UG/L			U		10
ATMMW-4I	Tetrachloroethene	UG/L			U		10
ATMMW-4I	Toluene	UG/L			U		10
ATMMW-4I	trans-1,3-Dichloropropene	UG/L			U		10
ATMMW-4I	Trichloroethene	UG/L			U		10
ATMMW-4I	Vinyl chloride	UG/L			U		10
ATMMW-4I	Xylenes (total)	UG/L			U		10
M-1S	1,1,1-Trichloroethane	UG/L	10		U		10
M-1S	1,1,2-Trichloroethane	UG/L	10		U		10
M-1S	1,1-Dichloroethene	UG/L	10		U		10
M-1S	Benzene	UG/L	10	2	J		10
M-1S	Chloroethane	UG/L	10		U		10
M-1S	Tetrachloroethene	UG/L	10		U		10
M-1S	Trichloroethene	UG/L	10		U		10
M-1S	Vinyl chloride	UG/L	10		U		10
M-4D	1,1,1-Trichloroethane	UG/L	10		U		10
M-4D	1,1,2-Trichloroethane	UG/L	10		U		10
M-4D	1,1-Dichloroethene	UG/L	10		U		10
M-4D	Benzene	UG/L	10		U	J	10
M-4D	Chloroethane	UG/L	10		U		10

BOLD = Exceedance

NA = Not Applicable

CAS/cas
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1252042.221601

Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
M-4D	Tetrachloroethene	UG/L	10		U		10
M-4D	Trichloroethene	UG/L	10		U		10
M-4D	Vinyl chloride	UG/L	10		U		10
M-4S	1,1,1-Trichloroethane	UG/L	100		U		100
M-4S	1,1,2,2-Tetrachloroethane	UG/L	100		U		100
M-4S	1,1,2-Trichloroethane	UG/L	100		U		100
M-4S	1,1-Dichloroethane	UG/L	100		U		100
M-4S	1,1-Dichloroethene	UG/L	100		U		100
M-4S	1,2-Dichloroethane	UG/L	100		U		100
M-4S	1,2-Dichloroethene (total)	UG/L	100		U		100
M-4S	1,2-Dichloropropane	UG/L	100		U		100
M-4S	2-Butanone	UG/L	100		U	UJ	100
M-4S	2-Hexanone	UG/L	100		U	UJ	100
M-4S	4-Methyl-2-pentanone	UG/L	100		U	UJ	100
M-4S	Acetone	UG/L	100	26	JB	JB	100
M-4S	Benzene	UG/L	190	180			100
M-4S	Bromodichloromethane	UG/L	100		U		100
M-4S	Bromoform	UG/L	100		U		100
M-4S	Bromomethane	UG/L	100		U		100
M-4S	Carbon disulfide	UG/L	100		U		100
M-4S	Carbon Tetrachloride	UG/L	100		U		100
M-4S	Chlorobenzene	UG/L	100		U		100
M-4S	Chloroethane	UG/L	1,300	**1,600**			100
M-4S	Chloroform	UG/L	100		U		100
M-4S	Chloromethane	UG/L	100		U		100
M-4S	cis-1,3-Dichloropropene	UG/L	100		U		100
M-4S	Dibromochloromethane	UG/L	100		U		100
M-4S	Ethyl Benzene	UG/L	100		U		100
M-4S	Methylene chloride	UG/L	100	19	J	J	100
M-4S	Styrene	UG/L	100		U		100
M-4S	Tetrachloroethene	UG/L	100		U		100
M-4S	Toluene	UG/L	100		U		100
M-4S	trans-1,3-Dichloropropene	UG/L	100		U		100
M-4S	Trichloroethene	UG/L	100		U		100
M-4S	Vinyl chloride	UG/L	100		U		100
M-4S	Xylenes (total)	UG/L	100		U		100
MW-06	1,1,1-Trichloroethane	UG/L	50		U		10
MW-06	1,1,2,2-Tetrachloroethane	UG/L	50		U		10
MW-06	1,1,2-Trichloroethane	UG/L	50		U		10
MW-06	1,1-Dichloroethane	UG/L	21		U		10
MW-06	1,1-Dichloroethene	UG/L	50		U		10
MW-06	1,2-Dichloroethane	UG/L	50		U		10
MW-06	1,2-Dichloroethene (total)	UG/L	26	1	J	J	10
MW-06	1,2-Dichloropropane	UG/L	50		U		10
MW-06	2-Butanone	UG/L	50	2	J	J	10
MW-06	2-Hexanone	UG/L	50		U		10

BOLD = Exceedance
NA = Not Applicable

CAS/cas
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1252042.221601

Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-06	4-Methyl-2-pentanone	UG/L	50		U		10
MW-06	Acetone	UG/L	50	**80**		JB	10
MW-06	Benzene	UG/L	320	180			10
MW-06	Bromodichloromethane	UG/L	50		U		10
MW-06	Bromoform	UG/L	50		U		10
MW-06	Bromomethane	UG/L	50		U		10
MW-06	Carbon disulfide	UG/L	50		U		10
MW-06	Carbon Tetrachloride	UG/L	50		U		10
MW-06	Chlorobenzene	UG/L	50		U		10
MW-06	Chloroethane	UG/L	720	78			10
MW-06	Chloroform	UG/L	50		U		10
MW-06	Chloromethane	UG/L	50		U	UJ	10
MW-06	cis-1,3-Dichloropropene	UG/L	50		U		10
MW-06	Dibromochloromethane	UG/L	50		U		10
MW-06	Ethyl Benzene	UG/L	16		U		10
MW-06	Methylene chloride	UG/L	17	**140**			10
MW-06	Styrene	UG/L	50		U		10
MW-06	Tetrachloroethene	UG/L	50		U		10
MW-06	Toluene	UG/L	50	1	J	J	10
MW-06	trans-1,3-Dichloropropene	UG/L	50		U		10
MW-06	Trichloroethene	UG/L	50		U		10
MW-06	Vinyl chloride	UG/L	50		U		10
MW-06	Xylenes (total)	UG/L	40		U		10
MW-07	1,1,1-Trichloroethane	UG/L	10		U		10
MW-07	1,1,2-Trichloroethane	UG/L	10		U		10
MW-07	1,1-Dichloroethene	UG/L	10		U		10
MW-07	Benzene	UG/L	10		U		10
MW-07	Chloroethane	UG/L	10		U		10
MW-07	Tetrachloroethene	UG/L	10		U		10
MW-07	Trichloroethene	UG/L	10		U		10
MW-08	1,1,1-Trichloroethane	UG/L	10		U		10
MW-08	1,1,2,2-Tetrachloroethane	UG/L	10		U		10
MW-08	1,1,2-Trichloroethane	UG/L	10		U		10
MW-08	1,1-Dichloroethane	UG/L	10		U		10
MW-08	1,1-Dichloroethene	UG/L	10		U		10
MW-08	1,2-Dichloroethane	UG/L	10		U		10
MW-08	1,2-Dichloroethene (total)	UG/L	10		U		10
MW-08	1,2-Dichloropropane	UG/L	10		U		10
MW-08	2-Butanone	UG/L	10		U		10
MW-08	2-Hexanone	UG/L	10		U		10
MW-08	4-Methyl-2-pentanone	UG/L	10		U		10
MW-08	Acetone	UG/L	10		U		10
MW-08	Benzene	UG/L	10		U		10
MW-08	Bromodichloromethane	UG/L	10		U		10
MW-08	Bromoform	UG/L	10		U		10
MW-08	Bromomethane	UG/L	10		U		10

BOLD = Exceedance
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CAS/cas
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1252042.221601

Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-08	Carbon disulfide	UG/L	10		U		10
MW-08	Carbon Tetrachloride	UG/L	10		U		10
MW-08	Chlorobenzene	UG/L	10		U		10
MW-08	Chloroethane	UG/L	10		U		10
MW-08	Chloroform	UG/L	10		U		10
MW-08	Chloromethane	UG/L	10		U		10
MW-08	cis-1,3-Dichloropropene	UG/L	10		U		10
MW-08	Dibromochloromethane	UG/L	10		U		10
MW-08	Ethyl Benzene	UG/L	10		U		10
MW-08	Methylene chloride	UG/L	10	3	J	J	10
MW-08	Styrene	UG/L	10		U		10
MW-08	Tetrachloroethene	UG/L	10		U		10
MW-08	Toluene	UG/L	10		U		10
MW-08	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-08	Trichloroethene	UG/L	10		U		10
MW-08	Vinyl chloride	UG/L	10		U		10
MW-08	Xylenes (total)	UG/L	10		U		10
MW-09R	1,1,1-Trichloroethane	UG/L	200		U		56
MW-09R	1,1,2,2-Tetrachloroethane	UG/L	200		U		56
MW-09R	1,1,2-Trichloroethane	UG/L	200		U		56
MW-09R	1,1-Dichloroethane	UG/L	200		U		56
MW-09R	1,1-Dichloroethene	UG/L	200		U		56
MW-09R	1,2-Dichloroethane	UG/L	200		U		56
MW-09R	1,2-Dichloroethene (total)	UG/L	200		U		56
MW-09R	1,2-Dichloropropane	UG/L	200		U		56
MW-09R	2-Butanone	UG/L	200		U		56
MW-09R	2-Hexanone	UG/L	200		U		56
MW-09R	4-Methyl-2-pentanone	UG/L	200		U		56
MW-09R	Acetone	UG/L	200	15	DJ	DJ	56
MW-09R	Benzene	UG/L	310	160	D		56
MW-09R	Bromodichloromethane	UG/L	200		U		56
MW-09R	Bromoform	UG/L	200		U		56
MW-09R	Bromomethane	UG/L	200		U		56
MW-09R	Carbon disulfide	UG/L	200		U		56
MW-09R	Carbon Tetrachloride	UG/L	200		U		56
MW-09R	Chlorobenzene	UG/L	200		U		56
MW-09R	Chloroethane	UG/L	2,900	490	D		56
MW-09R	Chloroform	UG/L	200		U		56
MW-09R	Chloromethane	UG/L	200		U	UJ	56
MW-09R	cis-1,3-Dichloropropene	UG/L	200		U		56
MW-09R	Dibromochloromethane	UG/L	200		U		56
MW-09R	Ethyl Benzene	UG/L	200		U		56
MW-09R	Methylene chloride	UG/L	200	12	DJ	JB	56
MW-09R	Styrene	UG/L	200		U		56
MW-09R	Tetrachloroethene	UG/L	200		U		56
MW-09R	Toluene	UG/L	200		U		56

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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-09R	trans-1,3-Dichloropropene	UG/L	200		U		56
MW-09R	Trichloroethene	UG/L	200		U		56
MW-09R	Vinyl chloride	UG/L	200		U		56
MW-09R	Xylenes (total)	UG/L	200		U		56
MW-10C	1,1,1-Trichloroethane	UG/L	150		U		1,000
MW-10C	1,1,2,2-Tetrachloroethane	UG/L	150		U		1,000
MW-10C	1,1,2-Trichloroethane	UG/L	150		U		1,000
MW-10C	1,1-Dichloroethane	UG/L	150		U		1,000
MW-10C	1,1-Dichloroethene	UG/L	150		U		1,000
MW-10C	1,2-Dichloroethane	UG/L	150		U		1,000
MW-10C	1,2-Dichloroethene (total)	UG/L	150		U		1,000
MW-10C	1,2-Dichloropropane	UG/L	150		U		1,000
MW-10C	2-Butanone	UG/L	150		U		1,000
MW-10C	2-Hexanone	UG/L	150		U		1,000
MW-10C	4-Methyl-2-pentanone	UG/L	150		U		1,000
MW-10C	Acetone	UG/L	150	**990**	J	JB	1,000
MW-10C	Benzene	UG/L	150	**2,000**			1,000
MW-10C	Bromodichloromethane	UG/L	150		U		1,000
MW-10C	Bromoform	UG/L	150		U		1,000
MW-10C	Bromomethane	UG/L	150		U		1,000
MW-10C	Carbon disulfide	UG/L	150		U		1,000
MW-10C	Carbon Tetrachloride	UG/L	150		U		1,000
MW-10C	Chlorobenzene	UG/L	150		U		1,000
MW-10C	Chloroethane	UG/L	420	**2,600**			1,000
MW-10C	Chloroform	UG/L	150		U		1,000
MW-10C	Chloromethane	UG/L	150		U	UJ	1,000
MW-10C	cis-1,3-Dichloropropene	UG/L	150		U		1,000
MW-10C	Dibromochloromethane	UG/L	150		U		1,000
MW-10C	Ethyl Benzene	UG/L	150		U		1,000
MW-10C	Methylene chloride	UG/L	128	**130**	J	JB	1,000
MW-10C	Styrene	UG/L	150		U		1,000
MW-10C	Tetrachloroethene	UG/L	150		U		1,000
MW-10C	Toluene	UG/L	150		U		1,000
MW-10C	trans-1,3-Dichloropropene	UG/L	150		U		1,000
MW-10C	Trichloroethene	UG/L	150		U		1,000
MW-10C	Vinyl chloride	UG/L	129		U		1,000
MW-10C	Xylenes (total)	UG/L	150		U		1,000
MW-11	1,1,1-Trichloroethane	UG/L	10		U		10
MW-11	1,1,2-Trichloroethane	UG/L	10		U		10
MW-11	1,1-Dichloroethene	UG/L	10		U		10
MW-11	Benzene	UG/L	10		U		10
MW-11	Chloroethane	UG/L	10		U		10
MW-11	Tetrachloroethene	UG/L	10		U		10
MW-11	Trichloroethene	UG/L	10		U		10
MW-11	Vinyl chloride	UG/L	10		U		10
MW-12	1,1,1-Trichloroethane	UG/L	10		U		10

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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-12	1,1,2-Trichloroethane	UG/L	10		U		10
MW-12	1,1-Dichloroethene	UG/L	10		U		10
MW-12	Benzene	UG/L	10		U		10
MW-12	Chloroethane	UG/L	10		U		10
MW-12	Tetrachloroethene	UG/L	10		U		10
MW-12	Trichloroethene	UG/L	10		U		10
MW-12	Vinyl chloride	UG/L	10		U		10
MW-13	1,1,1-Trichloroethane	UG/L	50		U	UJ	10
MW-13	1,1,2,2-Tetrachloroethane	UG/L	50		U	UJ	10
MW-13	1,1,2-Trichloroethane	UG/L	50		U	UJ	10
MW-13	1,1-Dichloroethane	UG/L	50		U	UJ	10
MW-13	1,1-Dichloroethene	UG/L	50		U	UJ	10
MW-13	1,2-Dichloroethane	UG/L	50		U	UJ	10
MW-13	1,2-Dichloroethene (total)	UG/L	50		U	UJ	10
MW-13	1,2-Dichloropropane	UG/L	50		U	UJ	10
MW-13	2-Butanone	UG/L	50		U	UJ	10
MW-13	2-Hexanone	UG/L	50		U	UJ	10
MW-13	4-Methyl-2-pentanone	UG/L	50		U	UJ	10
MW-13	Acetone	UG/L	50	5	JB	JB	10
MW-13	Benzene	UG/L	610		U	UJ	10
MW-13	Bromodichloromethane	UG/L	50		U	UJ	10
MW-13	Bromoform	UG/L	50		U	UJ	10
MW-13	Bromomethane	UG/L	50		U	UJ	10
MW-13	Carbon disulfide	UG/L	50		U	UJ	10
MW-13	Carbon Tetrachloride	UG/L	50		U	UJ	10
MW-13	Chlorobenzene	UG/L	50		U	UJ	10
MW-13	Chloroethane	UG/L	570		U	UJ	10
MW-13	Chloroform	UG/L	50		U	UJ	10
MW-13	Chloromethane	UG/L	50		U	UJ	10
MW-13	cis-1,3-Dichloropropene	UG/L	50		U	UJ	10
MW-13	Dibromochloromethane	UG/L	50		U	UJ	10
MW-13	Ethyl Benzene	UG/L	50		U	UJ	10
MW-13	Methylene chloride	UG/L	50	10		UJ	10
MW-13	Styrene	UG/L	50		U	UJ	10
MW-13	Tetrachloroethene	UG/L	50		U	UJ	10
MW-13	Toluene	UG/L	50		U	UJ	10
MW-13	trans-1,3-Dichloropropene	UG/L	50		U	UJ	10
MW-13	Trichloroethene	UG/L	50		U	UJ	10
MW-13	Vinyl chloride	UG/L	50		U	UJ	10
MW-13	Xylenes (total)	UG/L	50		U	UJ	10
MW-14	1,1,1-Trichloroethane	UG/L	100		U		10
MW-14	1,1,2,2-Tetrachloroethane	UG/L	100		U		10
MW-14	1,1,2-Trichloroethane	UG/L	100		U		10
MW-14	1,1-Dichloroethane	UG/L	100		U		10
MW-14	1,1-Dichloroethene	UG/L	100		U		10
MW-14	1,2-Dichloroethane	UG/L	100		U		10

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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
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Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-14	1,2-Dichloroethene (total)	UG/L	100		U		10
MW-14	1,2-Dichloropropane	UG/L	100		U		10
MW-14	2-Butanone	UG/L	100		U		10
MW-14	2-Hexanone	UG/L	100		U		10
MW-14	4-Methyl-2-pentanone	UG/L	100		U		10
MW-14	Acetone	UG/L	100	11		JB	10
MW-14	Benzene	UG/L	41		U		10
MW-14	Bromodichloromethane	UG/L	100		U		10
MW-14	Bromoform	UG/L	100		U		10
MW-14	Bromomethane	UG/L	100		U		10
MW-14	Carbon disulfide	UG/L	100		U		10
MW-14	Carbon Tetrachloride	UG/L	100		U		10
MW-14	Chlorobenzene	UG/L	100		U		10
MW-14	Chloroethane	UG/L	1,000		U		10
MW-14	Chloroform	UG/L	100		U		10
MW-14	Chloromethane	UG/L	100		U	UJ	10
MW-14	cis-1,3-Dichloropropene	UG/L	100		U		10
MW-14	Dibromochloromethane	UG/L	100		U		10
MW-14	Ethyl Benzene	UG/L	100		U		10
MW-14	Methylene chloride	UG/L	14	3	J	JB	10
MW-14	Styrene	UG/L	100		U		10
MW-14	Tetrachloroethene	UG/L	100		U		10
MW-14	Toluene	UG/L	100		U		10
MW-14	trans-1,3-Dichloropropene	UG/L	100		U		10
MW-14	Trichloroethene	UG/L	100		U		10
MW-14	Vinyl chloride	UG/L	100		U		10
MW-14	Xylenes (total)	UG/L	100		U		10
MW-15	1,1,1-Trichloroethane	UG/L	10		U		10
MW-15	1,1,2,2-Tetrachloroethane	UG/L	10		U		10
MW-15	1,1,2-Trichloroethane	UG/L	10		U		10
MW-15	1,1-Dichloroethane	UG/L	10		U		10
MW-15	1,1-Dichloroethene	UG/L	10		U		10
MW-15	1,2-Dichloroethane	UG/L	10		U		10
MW-15	1,2-Dichloroethene (total)	UG/L	10		U		10
MW-15	1,2-Dichloropropane	UG/L	10		U		10
MW-15	2-Butanone	UG/L	10		U	UJ	10
MW-15	2-Hexanone	UG/L	10		U	UJ	10
MW-15	4-Methyl-2-pentanone	UG/L	10		U	UJ	10
MW-15	Acetone	UG/L	10	4	J	J	10
MW-15	Benzene	UG/L	10	3	J	J	10
MW-15	Bromodichloromethane	UG/L	10		U		10
MW-15	Bromoform	UG/L	10		U		10
MW-15	Bromomethane	UG/L	10		U		10
MW-15	Carbon disulfide	UG/L	10		U		10
MW-15	Carbon Tetrachloride	UG/L	10		U		10
MW-15	Chlorobenzene	UG/L	10		U		10

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Comparison of Results to Baseline Highest Detections
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Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-15	Chloroethane	UG/L	10		U		10
MW-15	Chloroform	UG/L	10		U		10
MW-15	Chloromethane	UG/L	10		U		10
MW-15	cis-1,3-Dichloropropene	UG/L	10		U		10
MW-15	Dibromochloromethane	UG/L	10		U		10
MW-15	Ethyl Benzene	UG/L	10		U		10
MW-15	Methylene chloride	UG/L	10	5	J	J	10
MW-15	Styrene	UG/L	10		U		10
MW-15	Tetrachloroethene	UG/L	10		U		10
MW-15	Toluene	UG/L	10		U		10
MW-15	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-15	Trichloroethene	UG/L	10		U		10
MW-15	Vinyl chloride	UG/L	10		U		10
MW-15	Xylenes (total)	UG/L	10		U		10
MW-18	1,1,1-Trichloroethane	UG/L	10		U		10
MW-18	1,1,2,2-Tetrachloroethane	UG/L	10		U		10
MW-18	1,1,2-Trichloroethane	UG/L	10		U		10
MW-18	1,1-Dichloroethane	UG/L	10		U		10
MW-18	1,1-Dichloroethene	UG/L	10		U		10
MW-18	1,2-Dichloroethane	UG/L	10		U		10
MW-18	1,2-Dichloroethene (total)	UG/L	10		U		10
MW-18	1,2-Dichloropropane	UG/L	10		U		10
MW-18	2-Butanone	UG/L	10		U		10
MW-18	2-Hexanone	UG/L	10		U		10
MW-18	4-Methyl-2-pentanone	UG/L	10		U		10
MW-18	Acetone	UG/L	10	5	JB	J	10
MW-18	Benzene	UG/L	10		U		10
MW-18	Bromodichloromethane	UG/L	10		U		10
MW-18	Bromoform	UG/L	10		U		10
MW-18	Bromomethane	UG/L	10		U		10
MW-18	Carbon disulfide	UG/L	10		U		10
MW-18	Carbon Tetrachloride	UG/L	10		U		10
MW-18	Chlorobenzene	UG/L	10		U		10
MW-18	Chloroethane	UG/L	10		U		10
MW-18	Chloroform	UG/L	10		U		10
MW-18	Chloromethane	UG/L	10		U		10
MW-18	cis-1,3-Dichloropropene	UG/L	10		U		10
MW-18	Dibromochloromethane	UG/L	10		U		10
MW-18	Ethyl Benzene	UG/L	10		U		10
MW-18	Methylene chloride	UG/L	10	4	J	J	10
MW-18	Styrene	UG/L	10		U		10
MW-18	Tetrachloroethene	UG/L	10		U		10
MW-18	Toluene	UG/L	10		U		10
MW-18	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-18	Trichloroethene	UG/L	10		U		10
MW-18	Vinyl chloride	UG/L	10		U		10

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Comparison of Results to Baseline Highest Detections
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Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-18	Xylenes (total)	UG/L	10		U		10
MW-19	1,1,1-Trichloroethane	UG/L	10		U	UJ	10
MW-19	1,1,2,2-Tetrachloroethane	UG/L	10		U	UJ	10
MW-19	1,1,2-Trichloroethane	UG/L	10		U	UJ	10
MW-19	1,1-Dichloroethane	UG/L	10		U	UJ	10
MW-19	1,1-Dichloroethene	UG/L	10		U	UJ	10
MW-19	1,2-Dichloroethane	UG/L	10		U	UJ	10
MW-19	1,2-Dichloroethene (total)	UG/L	10		U	UJ	10
MW-19	1,2-Dichloropropane	UG/L	10		U	UJ	10
MW-19	2-Butanone	UG/L	10	2	JB	JB	10
MW-19	2-Hexanone	UG/L	10	3	JB	JB	10
MW-19	4-Methyl-2-pentanone	UG/L	10	3	JB	JB	10
MW-19	Acetone	UG/L	12	**19**	B	JB	10
MW-19	Benzene	UG/L	10	7	J	J	10
MW-19	Bromodichloromethane	UG/L	10		U	UJ	10
MW-19	Bromoform	UG/L	10		U	UJ	10
MW-19	Bromomethane	UG/L	10		U	UJ	10
MW-19	Carbon disulfide	UG/L	10		U	UJ	10
MW-19	Carbon Tetrachloride	UG/L	10		U	UJ	10
MW-19	Chlorobenzene	UG/L	10		U	UJ	10
MW-19	Chloroethane	UG/L	20	14		J	10
MW-19	Chloroform	UG/L	10		U	UJ	10
MW-19	Chloromethane	UG/L	10		U	UJ	10
MW-19	cis-1,3-Dichloropropene	UG/L	10		U	UJ	10
MW-19	Dibromochloromethane	UG/L	10		U	UJ	10
MW-19	Ethyl Benzene	UG/L	10		U	UJ	10
MW-19	Methylene chloride	UG/L	10	3	J	J	10
MW-19	Styrene	UG/L	10		U	UJ	10
MW-19	Tetrachloroethene	UG/L	10		U	UJ	10
MW-19	Toluene	UG/L	10		U	UJ	10
MW-19	trans-1,3-Dichloropropene	UG/L	10		U	UJ	10
MW-19	Trichloroethene	UG/L	10		U	UJ	10
MW-19	Vinyl chloride	UG/L	10		U	UJ	10
MW-19	Xylenes (total)	UG/L	10		U	UJ	10
MW-23	1,1,1-Trichloroethane	UG/L	10		U		10
MW-23	1,1,2,2-Tetrachloroethane	UG/L	10		U		10
MW-23	1,1,2-Trichloroethane	UG/L	10		U		10
MW-23	1,1-Dichloroethane	UG/L	10		U		10
MW-23	1,1-Dichloroethene	UG/L	10		U		10
MW-23	1,2-Dichloroethane	UG/L	10		U		10
MW-23	1,2-Dichloroethene (total)	UG/L	10		U		10
MW-23	1,2-Dichloropropane	UG/L	10		U		10
MW-23	2-Butanone	UG/L	10		U		10
MW-23	2-Hexanone	UG/L	10		U		10
MW-23	4-Methyl-2-pentanone	UG/L	10		U		10
MW-23	Acetone	UG/L	10	7	J	J	10

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Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-23	Benzene	UG/L	10		U		10
MW-23	Bromodichloromethane	UG/L	10		U		10
MW-23	Bromoform	UG/L	10		U		10
MW-23	Bromomethane	UG/L	10		U		10
MW-23	Carbon disulfide	UG/L	10		U		10
MW-23	Carbon Tetrachloride	UG/L	10		U		10
MW-23	Chlorobenzene	UG/L	10		U		10
MW-23	Chloroethane	UG/L	10		U		10
MW-23	Chloroform	UG/L	10		U		10
MW-23	Chloromethane	UG/L	10		U		10
MW-23	cis-1,3-Dichloropropene	UG/L	10		U		10
MW-23	Dibromochloromethane	UG/L	10		U		10
MW-23	Ethyl Benzene	UG/L	10		U		10
MW-23	Methylene chloride	UG/L	10	4	J	JB	10
MW-23	Styrene	UG/L	10		U		10
MW-23	Tetrachloroethene	UG/L	10		U		10
MW-23	Toluene	UG/L	10		U		10
MW-23	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-23	Trichloroethene	UG/L	10		U		10
MW-23	Vinyl chloride	UG/L	10		U		10
MW-23	Xylenes (total)	UG/L	10		U		10
MW-24	1,1,1-Trichloroethane	UG/L	10		U		10
MW-24	1,1,2,2-Tetrachloroethane	UG/L	10		U		10
MW-24	1,1,2-Trichloroethane	UG/L	10		U		10
MW-24	1,1-Dichloroethane	UG/L	10		U		10
MW-24	1,1-Dichloroethene	UG/L	10		U		10
MW-24	1,2-Dichloroethane	UG/L	10		U		10
MW-24	1,2-Dichloroethene (total)	UG/L	10		U		10
MW-24	1,2-Dichloropropane	UG/L	10		U		10
MW-24	2-Butanone	UG/L	10		U		10
MW-24	2-Hexanone	UG/L	10		U		10
MW-24	4-Methyl-2-pentanone	UG/L	10		U		10
MW-24	Acetone	UG/L	10	4	JB	JB	10
MW-24	Benzene	UG/L	10		U		10
MW-24	Bromodichloromethane	UG/L	10		U		10
MW-24	Bromoform	UG/L	10		U		10
MW-24	Bromomethane	UG/L	10		U		10
MW-24	Carbon disulfide	UG/L	10		U		10
MW-24	Carbon Tetrachloride	UG/L	10		U		10
MW-24	Chlorobenzene	UG/L	10		U		10
MW-24	Chloroethane	UG/L	10		U		10
MW-24	Chloroform	UG/L	10		U		10
MW-24	Chloromethane	UG/L	10		U		10
MW-24	cis-1,3-Dichloropropene	UG/L	10		U		10
MW-24	Dibromochloromethane	UG/L	10		U		10
MW-24	Ethyl Benzene	UG/L	10		U		10

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Comparison of Results to Baseline Highest Detections
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American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-24	Methylene chloride	UG/L	10	4	J	JB	10
MW-24	Styrene	UG/L	10		U		10
MW-24	Tetrachloroethene	UG/L	10		U		10
MW-24	Toluene	UG/L	10		U		10
MW-24	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-24	Trichloroethene	UG/L	10		U		10
MW-24	Vinyl chloride	UG/L	10		U		10
MW-24	Xylenes (total)	UG/L	10		U		10
MW-28	1;1,1-Trichloroethane	UG/L	10		U		10
MW-28	1,1,2,2-Tetrachloroethane	UG/L	10		U		10
MW-28	1,1,2-Trichloroethane	UG/L	10		U		10
MW-28	1,1-Dichloroethane	UG/L	10		U		10
MW-28	1,1-Dichloroethene	UG/L	10		U		10
MW-28	1,2-Dichloroethane	UG/L	10		U		10
MW-28	1,2-Dichloroethene (total)	UG/L	10		U		10
MW-28	1,2-Dichloropropane	UG/L	10		U		10
MW-28	2-Butanone	UG/L	10		U		10
MW-28	2-Hexanone	UG/L	10		U		10
MW-28	4-Methyl-2-pentanone	UG/L	10		U		10
MW-28	Acetone	UG/L	10	4	JB	J	10
MW-28	Benzene	UG/L	10		U		10
MW-28	Bromodichloromethane	UG/L	10		U		10
MW-28	Bromoform	UG/L	10		U		10
MW-28	Bromomethane	UG/L	10		U		10
MW-28	Carbon disulfide	UG/L	10		U		10
MW-28	Carbon Tetrachloride	UG/L	10		U		10
MW-28	Chlorobenzene	UG/L	10		U		10
MW-28	Chloroethane	UG/L	10		U		10
MW-28	Chloroform	UG/L	10		U		10
MW-28	Chloromethane	UG/L	10		U		10
MW-28	cis-1,3-Dichloropropene	UG/L	10		U		10
MW-28	Dibromochloromethane	UG/L	10		U		10
MW-28	Ethyl Benzene	UG/L	10	2	J		10
MW-28	Methylene chloride	UG/L	10	8	J	J	10
MW-28	Styrene	UG/L	10		U		10
MW-28	Tetrachloroethene	UG/L	10		U		10
MW-28	Toluene	UG/L	10		U		10
MW-28	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-28	Trichloroethene	UG/L	10		U		10
MW-28	Vinyl chloride	UG/L	10		U		10
MW-28	Xylenes (total)	UG/L	10	2	J		10
MW-29	1,1,1-Trichloroethane	UG/L	10		U		10
MW-29	1,1,2,2-Tetrachloroethane	UG/L	10		U		10
MW-29	1,1,2-Trichloroethane	UG/L	10		U		10
MW-29	1,1-Dichloroethane	UG/L	10		U		10
MW-29	1,1-Dichloroethene	UG/L	10		U		10

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Comparison of Results to Baseline Highest Detections
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Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-29	1,2-Dichloroethane	UG/L	10		U		10
MW-29	1,2-Dichloroethene (total)	UG/L	10		U		10
MW-29	1,2-Dichloropropane	UG/L	10		U		10
MW-29	2-Butanone	UG/L	10		U		10
MW-29	2-Hexanone	UG/L	10		U		10
MW-29	4-Methyl-2-pentanone	UG/L	10		U		10
MW-29	Acetone	UG/L	10	2	J	J	10
MW-29	Benzene	UG/L	10		U		10
MW-29	Bromodichloromethane	UG/L	10		U		10
MW-29	Bromoform	UG/L	10		U		10
MW-29	Bromomethane	UG/L	10		U		10
MW-29	Carbon disulfide	UG/L	10		U		10
MW-29	Carbon Tetrachloride	UG/L	10		U		10
MW-29	Chlorobenzene	UG/L	10		U		10
MW-29	Chloroethane	UG/L	10		U		10
MW-29	Chloroform	UG/L	10		U		10
MW-29	Chloromethane	UG/L	10		U		10
MW-29	cis-1,3-Dichloropropene	UG/L	10		U		10
MW-29	Dibromochloromethane	UG/L	10		U		10
MW-29	Ethyl Benzene	UG/L	10		U		10
MW-29	Methylene chloride	UG/L	10	2	J	J	10
MW-29	Styrene	UG/L	10		U		10
MW-29	Tetrachloroethene	UG/L	10		U		10
MW-29	Toluene	UG/L	10		U		10
MW-29	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-29	Trichloroethene	UG/L	10		U		10
MW-29	Vinyl chloride	UG/L	10		U		10
MW-29	Xylenes (total)	UG/L	10		U		10
MW-30	1,1,1-Trichloroethane	UG/L	10		U		10
MW-30	1,1,2,2-Tetrachloroethane	UG/L	10		U		10
MW-30	1,1,2-Trichloroethane	UG/L	10		U		10
MW-30	1,1-Dichloroethane	UG/L	10		U		10
MW-30	1,1-Dichloroethene	UG/L	10		U		10
MW-30	1,2-Dichloroethane	UG/L	10		U		10
MW-30	1,2-Dichloroethene (total)	UG/L	10		U		10
MW-30	1,2-Dichloropropane	UG/L	10		U		10
MW-30	2-Butanone	UG/L	10		U		10
MW-30	2-Hexanone	UG/L	10		U		10
MW-30	4-Methyl-2-pentanone	UG/L	10		U		10
MW-30	Acetone	UG/L	10	3	J	J	10
MW-30	Benzene	UG/L	10		U		10
MW-30	Bromodichloromethane	UG/L	10		U		10
MW-30	Bromoform	UG/L	10		U		10
MW-30	Bromomethane	UG/L	10		U		10
MW-30	Carbon disulfide	UG/L	10		U		10
MW-30	Carbon Tetrachloride	UG/L	10		U		10

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Comparison of Results to Baseline Highest Detections
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American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-30	Chlorobenzene	UG/L	10		U		10
MW-30	Chloroethane	UG/L	10		U		10
MW-30	Chloroform	UG/L	10		U		10
MW-30	Chloromethane	UG/L	10		U		10
MW-30	cis-1,3-Dichloropropene	UG/L	10		U		10
MW-30	Dibromochloromethane	UG/L	10		U		10
MW-30	Ethyl Benzene	UG/L	10		U		10
MW-30	Methylene chloride	UG/L	10	4	J	J	10
MW-30	Styrene	UG/L	10		U		10
MW-30	Tetrachloroethene	UG/L	10		U		10
MW-30	Toluene	UG/L	10		U		10
MW-30	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-30	Trichloroethene	UG/L	10		U		10
MW-30	Vinyl chloride	UG/L	10		U		10
MW-30	Xylenes (total)	UG/L	10		U		10
MW-31	1,1,1-Trichloroethane	UG/L	10		U		10
MW-31	1,1,2,2-Tetrachloroethane	UG/L	10		U		10
MW-31	1,1,2-Trichloroethane	UG/L	10		U		10
MW-31	1,1-Dichloroethane	UG/L	10		U		10
MW-31	1,1-Dichloroethene	UG/L	10		U		10
MW-31	1,2-Dichloroethane	UG/L	10		U		10
MW-31	1,2-Dichloroethene (total)	UG/L	10		U		10
MW-31	1,2-Dichloropropane	UG/L	10		U		10
MW-31	2-Butanone	UG/L	10		U		10
MW-31	2-Hexanone	UG/L	10		U		10
MW-31	4-Methyl-2-pentanone	UG/L	10		U		10
MW-31	Acetone	UG/L	10	2	JB	J	10
MW-31	Benzene	UG/L	10		U		10
MW-31	Bromodichloromethane	UG/L	10		U		10
MW-31	Bromoform	UG/L	10		U		10
MW-31	Bromomethane	UG/L	10		U		10
MW-31	Carbon disulfide	UG/L	10		U		10
MW-31	Carbon Tetrachloride	UG/L	10		U		10
MW-31	Chlorobenzene	UG/L	10		U		10
MW-31	Chloroethane	UG/L	10		U		10
MW-31	Chloroform	UG/L	10		U		10
MW-31	Chloromethane	UG/L	10		U		10
MW-31	cis-1,3-Dichloropropene	UG/L	10		U		10
MW-31	Dibromochloromethane	UG/L	10		U		10
MW-31	Ethyl Benzene	UG/L	10		U		10
MW-31	Methylene chloride	UG/L	10	2	J	J	10
MW-31	Styrene	UG/L	10		U		10
MW-31	Tetrachloroethene	UG/L	10		U		10
MW-31	Toluene	UG/L	10		U		10
MW-31	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-31	Trichloroethene	UG/L	10		U		10

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Comparison of Results to Baseline Highest Detections
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Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-31	Vinyl chloride	UG/L	10		U		10
MW-31	Xylenes (total)	UG/L	10		U		10
MW-32	1,1,1-Trichloroethane	UG/L	10		U		10
MW-32	1,1,2,2-Tetrachloroethane	UG/L	10		U		10
MW-32	1,1,2-Trichloroethane	UG/L	10		U		10
MW-32	1,1-Dichloroethane	UG/L	10		U		10
MW-32	1,1-Dichloroethene	UG/L	10		U		10
MW-32	1,2-Dichloroethane	UG/L	10		U		10
MW-32	1,2-Dichloroethene (total)	UG/L	10		U		10
MW-32	1,2-Dichloropropane	UG/L	10		U		10
MW-32	2-Butanone	UG/L	10		U		10
MW-32	2-Hexanone	UG/L	10		U		10
MW-32	4-Methyl-2-pentanone	UG/L	10		U		10
MW-32	Acetone	UG/L	10	2	JB	J	10
MW-32	Benzene	UG/L	10		U		10
MW-32	Bromodichloromethane	UG/L	10		U		10
MW-32	Bromoform	UG/L	10		U		10
MW-32	Bromomethane	UG/L	10		U		10
MW-32	Carbon disulfide	UG/L	10		U		10
MW-32	Carbon Tetrachloride	UG/L	10		U		10
MW-32	Chlorobenzene	UG/L	10		U		10
MW-32	Chloroethane	UG/L	10		U		10
MW-32	Chloroform	UG/L	10		U		10
MW-32	Chloromethane	UG/L	10		U		10
MW-32	cis-1,3-Dichloropropene	UG/L	10		U		10
MW-32	Dibromochloromethane	UG/L	10		U		10
MW-32	Ethyl Benzene	UG/L	10		U		10
MW-32	Methylene chloride	UG/L	10	2	J	J	10
MW-32	Styrene	UG/L	10		U		10
MW-32	Tetrachloroethene	UG/L	10		U		10
MW-32	Toluene	UG/L	10		U		10
MW-32	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-32	Trichloroethene	UG/L	10		U		10
MW-32	Vinyl chloride	UG/L	10		U		10
MW-32	Xylenes (total)	UG/L	10		U		10
MW-33	1,1,1-Trichloroethane	UG/L	10		U		10
MW-33	1,1,2,2-Tetrachloroethane	UG/L	10		U		10
MW-33	1,1,2-Trichloroethane	UG/L	10		U		10
MW-33	1,1-Dichloroethane	UG/L	10		U		10
MW-33	1,1-Dichloroethene	UG/L	10		U		10
MW-33	1,2-Dichloroethane	UG/L	10		U		10
MW-33	1,2-Dichloroethene (total)	UG/L	10		U		10
MW-33	1,2-Dichloropropane	UG/L	10		U		10
MW-33	2-Butanone	UG/L	10	1	JB		10
MW-33	2-Hexanone	UG/L	10		U		10
MW-33	4-Methyl-2-pentanone	UG/L	10		U		10

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Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-33	Acetone	UG/L	10	8	JB	JB	10
MW-33	Benzene	UG/L	10		U		10
MW-33	Bromodichloromethane	UG/L	10		U		10
MW-33	Bromoform	UG/L	10		U		10
MW-33	Bromomethane	UG/L	10		U		10
MW-33	Carbon disulfide	UG/L	10		U		10
MW-33	Carbon Tetrachloride	UG/L	10		U		10
MW-33	Chlorobenzene	UG/L	10		U		10
MW-33	Chloroethane	UG/L	10		U		10
MW-33	Chloroform	UG/L	10		U		10
MW-33	Chloromethane	UG/L	10		U		10
MW-33	cis-1,3-Dichloropropene	UG/L	10		U		10
MW-33	Dibromochloromethane	UG/L	10		U		10
MW-33	Ethyl Benzene	UG/L	10		U		10
MW-33	Methylene chloride	UG/L	10	9	J	J	10
MW-33	Styrene	UG/L	10		U		10
MW-33	Tetrachloroethene	UG/L	10		U		10
MW-33	Toluene	UG/L	10		U		10
MW-33	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-33	Trichloroethene	UG/L	10		U		10
MW-33	Vinyl chloride	UG/L	10		U		10
MW-33	Xylenes (total)	UG/L	10		U		10
MW-34	1,1,1-Trichloroethane	UG/L	10		U	UJ	10
MW-34	1,1,2-Trichloroethane	UG/L	10		U	UJ	10
MW-34	1,1-Dichloroethene	UG/L	10		U	UJ	10
MW-34	Benzene	UG/L	10		U	UJ	10
MW-34	Chloroethane	UG/L	10		U	UJ	10
MW-34	Tetrachloroethene	UG/L	10		U	UJ	10
MW-34	Trichloroethene	UG/L	10		U	UJ	10
MW-34	Vinyl chloride	UG/L	10		U	UJ	10
MW-37	1,1,1-Trichloroethane	UG/L	10		U		10
MW-37	1,1,2,2-Tetrachloroethane	UG/L	10		U		10
MW-37	1,1,2-Trichloroethane	UG/L	10		U		10
MW-37	1,1-Dichloroethane	UG/L	10		U		10
MW-37	1,1-Dichloroethene	UG/L	10		U		10
MW-37	1,2-Dichloroethane	UG/L	10		U		10
MW-37	1,2-Dichloroethene (total)	UG/L	10		U		10
MW-37	1,2-Dichloropropane	UG/L	10		U		10
MW-37	2-Butanone	UG/L	10		U		10
MW-37	2-Hexanone	UG/L	10		U		10
MW-37	4-Methyl-2-pentanone	UG/L	10		U		10
MW-37	Acetone	UG/L	10	5	J	J	10
MW-37	Benzene	UG/L	10		U		10
MW-37	Bromodichloromethane	UG/L	10		U		10
MW-37	Bromoform	UG/L	10		U		10
MW-37	Bromomethane	UG/L	10		U		10

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Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-37	Carbon disulfide	UG/L	10		U		10
MW-37	Carbon Tetrachloride	UG/L	10		U		10
MW-37	Chlorobenzene	UG/L	10		U		10
MW-37	Chloroethane	UG/L	10		U		10
MW-37	Chloroform	UG/L	10		U		10
MW-37	Chloromethane	UG/L	10		U		10
MW-37	cis-1,3-Dichloropropene	UG/L	10		U		10
MW-37	Dibromochloromethane	UG/L	10		U		10
MW-37	Ethyl Benzene	UG/L	10		U		10
MW-37	Methylene chloride	UG/L	10	4	J	J	10
MW-37	Styrene	UG/L	10		U		10
MW-37	Tetrachloroethene	UG/L	10		U		10
MW-37	Toluene	UG/L	10		U		10
MW-37	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-37	Trichloroethene	UG/L	10		U		10
MW-37	Vinyl chloride	UG/L	10		U		10
MW-37	Xylenes (total)	UG/L	10		U		10
MW-38	1,1,1-Trichloroethane	UG/L	10		U		10
MW-38	1,1,2,2-Tetrachloroethane	UG/L	10		U		10
MW-38	1,1,2-Trichloroethane	UG/L	10		U		10
MW-38	1,1-Dichloroethane	UG/L	10		U		10
MW-38	1,1-Dichloroethene	UG/L	10		U		10
MW-38	1,2-Dichloroethane	UG/L	10		U		10
MW-38	1,2-Dichloroethene (total)	UG/L	10		U		10
MW-38	1,2-Dichloropropane	UG/L	10		U		10
MW-38	2-Butanone	UG/L	10		U		10
MW-38	2-Hexanone	UG/L	10		U		10
MW-38	4-Methyl-2-pentanone	UG/L	10		U		10
MW-38	Acetone	UG/L	10	5	JB	J	10
MW-38	Benzene	UG/L	10		U		10
MW-38	Bromodichloromethane	UG/L	10		U		10
MW-38	Bromoform	UG/L	10		U		10
MW-38	Bromomethane	UG/L	10		U		10
MW-38	Carbon disulfide	UG/L	10		U		10
MW-38	Carbon Tetrachloride	UG/L	10		U		10
MW-38	Chlorobenzene	UG/L	10		U		10
MW-38	Chloroethane	UG/L	10		U		10
MW-38	Chloroform	UG/L	10		U		10
MW-38	Chloromethane	UG/L	10		U		10
MW-38	cis-1,3-Dichloropropene	UG/L	10		U		10
MW-38	Dibromochloromethane	UG/L	10		U		10
MW-38	Ethyl Benzene	UG/L	10		U		10
MW-38	Methylene chloride	UG/L	10	7	J	J	10
MW-38	Styrene	UG/L	10		U		10
MW-38	Tetrachloroethene	UG/L	10		U		10
MW-38	Toluene	UG/L	10		U		10

BOLD = Exceedance
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CAS/cas
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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-38	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-38	Trichloroethene	UG/L	10		U		10
MW-38	Vinyl chloride	UG/L	10		U		10
MW-38	Xylenes (total)	UG/L	10		U		10
MW-39	1,1,1-Trichloroethane	UG/L	10		U		10
MW-39	1,1,2,2-Tetrachloroethane	UG/L	10		U		10
MW-39	1,1,2-Trichloroethane	UG/L	10		U		10
MW-39	1,1-Dichloroethane	UG/L	10		U		10
MW-39	1,1-Dichloroethene	UG/L	10		U		10
MW-39	1,2-Dichloroethane	UG/L	10		U		10
MW-39	1,2-Dichloroethene (total)	UG/L	10	2	J		10
MW-39	1,2-Dichloropropane	UG/L	10		U		10
MW-39	2-Butanone	UG/L	10		U		10
MW-39	2-Hexanone	UG/L	10		U		10
MW-39	4-Methyl-2-pentanone	UG/L	10		U		10
MW-39	Acetone	UG/L	10	4	JB	J	10
MW-39	Benzene	UG/L	12	2	J		10
MW-39	Bromodichloromethane	UG/L	10		U		10
MW-39	Bromoform	UG/L	10		U		10
MW-39	Bromomethane	UG/L	10		U		10
MW-39	Carbon disulfide	UG/L	10		U		10
MW-39	Carbon Tetrachloride	UG/L	10		U		10
MW-39	Chlorobenzene	UG/L	10		U		10
MW-39	Chloroethane	UG/L	10		U		10
MW-39	Chloroform	UG/L	10		U		10
MW-39	Chloromethane	UG/L	10		U		10
MW-39	cis-1,3-Dichloropropene	UG/L	10		U		10
MW-39	Dibromochloromethane	UG/L	10		U		10
MW-39	Ethyl Benzene	UG/L	10	1	J		10
MW-39	Methylene chloride	UG/L	10	7	J	J	10
MW-39	Styrene	UG/L	10		U		10
MW-39	Tetrachloroethene	UG/L	10		U		10
MW-39	Toluene	UG/L	10		U		10
MW-39	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-39	Trichloroethene	UG/L	10		U		10
MW-39	Vinyl chloride	UG/L	10		U		10
MW-39	Xylenes (total)	UG/L	10	1	J		10
MW-40	1,1,1-Trichloroethane	UG/L	10		U		10
MW-40	1,1,2-Trichloroethane	UG/L	10		U		10
MW-40	1,1-Dichloroethene	UG/L	10		U		10
MW-40	Benzene	UG/L	10		U		10
MW-40	Chloroethane	UG/L	10		U		10
MW-40	Methylene chloride	UG/L	10	8	NJ		NA
MW-40	Tetrachloroethene	UG/L	10		U		10
MW-40	Trichloroethene	UG/L	10		U		10
MW-40	Vinyl chloride	UG/L	10		U		10

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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-41	1,1,1-Trichloroethane	UG/L	10		U		10
MW-41	1,1,2,2-Tetrachloroethane	UG/L	10		U		10
MW-41	1,1,2-Trichloroethane	UG/L	10		U		10
MW-41	1,1-Dichloroethane	UG/L	10		U		10
MW-41	1,1-Dichloroethene	UG/L	10		U		10
MW-41	1,2-Dichloroethane	UG/L	10		U		10
MW-41	1,2-Dichloroethene (total)	UG/L	10		U		10
MW-41	1,2-Dichloropropane	UG/L	10		U		10
MW-41	2-Butanone	UG/L	10		U		10
MW-41	2-Hexanone	UG/L	10		U		10
MW-41	4-Methyl-2-pentanone	UG/L	10		U		10
MW-41	Acetone	UG/L	10		U		10
MW-41	Benzene	UG/L	10		U		10
MW-41	Bromodichloromethane	UG/L	10		U		10
MW-41	Bromoform	UG/L	10		U		10
MW-41	Bromomethane	UG/L	10		U		10
MW-41	Carbon disulfide	UG/L	10		U		10
MW-41	Carbon Tetrachloride	UG/L	10		U		10
MW-41	Chlorobenzene	UG/L	10		U		10
MW-41	Chloroethane	UG/L	10		U		10
MW-41	Chloroform	UG/L	10		U		10
MW-41	Chloromethane	UG/L	10		U		10
MW-41	cis-1,3-Dichloropropene	UG/L	10		U		10
MW-41	Dibromochloromethane	UG/L	10		U		10
MW-41	Ethyl Benzene	UG/L	10		U		10
MW-41	Methylene chloride	UG/L	10	2	J	J	10
MW-41	Styrene	UG/L	10		U		10
MW-41	Tetrachloroethene	UG/L	10		U		10
MW-41	Toluene	UG/L	10		U		10
MW-41	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-41	Trichloroethene	UG/L	10		U		10
MW-41	Vinyl chloride	UG/L	10		U		10
MW-41	Xylenes (total)	UG/L	10		U		10
MW-42	1,1,1-Trichloroethane	UG/L	10		U		10
MW-42	1,1,2,2-Tetrachloroethane	UG/L	10		U		10
MW-42	1,1,2-Trichloroethane	UG/L	10		U		10
MW-42	1,1-Dichloroethane	UG/L	10		U		10
MW-42	1,1-Dichloroethene	UG/L	10		U		10
MW-42	1,2-Dichloroethane	UG/L	10		U		10
MW-42	1,2-Dichloroethene (total)	UG/L	10		U		10
MW-42	1,2-Dichloropropane	UG/L	10		U		10
MW-42	2-Butanone	UG/L	10		U		10
MW-42	2-Hexanone	UG/L	10		U		10
MW-42	4-Methyl-2-pentanone	UG/L	10		U		10
MW-42	Acetone	UG/L	10	3	JB	J	10
MW-42	Benzene	UG/L	10		U		10

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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-42	Bromodichloromethane	UG/L	10		U		10
MW-42	Bromoform	UG/L	10		U		10
MW-42	Bromomethane	UG/L	10		U		10
MW-42	Carbon disulfide	UG/L	10		U		10
MW-42	Carbon Tetrachloride	UG/L	10		U		10
MW-42	Chlorobenzene	UG/L	10		U		10
MW-42	Chloroethane	UG/L	10		U		10
MW-42	Chloroform	UG/L	10		U		10
MW-42	Chloromethane	UG/L	10		U		10
MW-42	cis-1,3-Dichloropropene	UG/L	10		U		10
MW-42	Dibromochloromethane	UG/L	10		U		10
MW-42	Ethyl Benzene	UG/L	10		U		10
MW-42	Methylene chloride	UG/L	10	3	J	J	10
MW-42	Styrene	UG/L	10		U		10
MW-42	Tetrachloroethene	UG/L	10		U		10
MW-42	Toluene	UG/L	10		U		10
MW-42	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-42	Trichloroethene	UG/L	10		U		10
MW-42	Vinyl chloride	UG/L	10		U		10
MW-42	Xylenes (total)	UG/L	10		U		10
MW-43	1,1,1-Trichloroethane	UG/L	10		U		10
MW-43	1,1,2,2-Tetrachloroethane	UG/L	10		U		10
MW-43	1,1,2-Trichloroethane	UG/L	10		U		10
MW-43	1,1-Dichloroethane	UG/L	10		U		10
MW-43	1,1-Dichloroethene	UG/L	10		U		10
MW-43	1,2-Dichloroethane	UG/L	10		U		10
MW-43	1,2-Dichloroethene (total)	UG/L	10		U		10
MW-43	1,2-Dichloropropane	UG/L	10		U		10
MW-43	2-Butanone	UG/L	10		U		10
MW-43	2-Hexanone	UG/L	10		U		10
MW-43	4-Methyl-2-pentanone	UG/L	10		U		10
MW-43	Acetone	UG/L	10	4	J	J	10
MW-43	Benzene	UG/L	10		U		10
MW-43	Bromodichloromethane	UG/L	10		U		10
MW-43	Bromoform	UG/L	10		U		10
MW-43	Bromomethane	UG/L	10		U		10
MW-43	Carbon disulfide	UG/L	10		U		10
MW-43	Carbon Tetrachloride	UG/L	10		U		10
MW-43	Chlorobenzene	UG/L	10		U		10
MW-43	Chloroethane	UG/L	10		U		10
MW-43	Chloroform	UG/L	10		U		10
MW-43	Chloromethane	UG/L	10		U		10
MW-43	cis-1,3-Dichloropropene	UG/L	10		U		10
MW-43	Dibromochloromethane	UG/L	10		U		10
MW-43	Ethyl Benzene	UG/L	10		U		10
MW-43	Methylene chloride	UG/L	10	2	J	J	10

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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-43	Styrene	UG/L	10		U		10
MW-43	Tetrachloroethene	UG/L	10		U		10
MW-43	Toluene	UG/L	10		U		10
MW-43	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-43	Trichloroethene	UG/L	10		U		10
MW-43	Vinyl chloride	UG/L	10		U		10
MW-43	Xylenes (total)	UG/L	10		U		10
MW-44	1,1,1-Trichloroethane	UG/L	10		U		10
MW-44	1,1,2,2-Tetrachloroethane	UG/L	10		U		10
MW-44	1,1,2-Trichloroethane	UG/L	10		U		10
MW-44	1,1-Dichloroethane	UG/L	10		U		10
MW-44	1,1-Dichloroethene	UG/L	10		U		10
MW-44	1,2-Dichloroethane	UG/L	10		U		10
MW-44	1,2-Dichloroethene (total)	UG/L	10		U		10
MW-44	1,2-Dichloropropane	UG/L	10		U		10
MW-44	2-Butanone	UG/L	10		U		10
MW-44	2-Hexanone	UG/L	10		U		10
MW-44	4-Methyl-2-pentanone	UG/L	10		U		10
MW-44	Acetone	UG/L	10	6	JB	J	10
MW-44	Benzene	UG/L	10		U		10
MW-44	Bromodichloromethane	UG/L	10		U		10
MW-44	Bromoform	UG/L	10		U		10
MW-44	Bromomethane	UG/L	10		U		10
MW-44	Carbon disulfide	UG/L	10		U		10
MW-44	Carbon Tetrachloride	UG/L	10		U		10
MW-44	Chlorobenzene	UG/L	10		U		10
MW-44	Chloroethane	UG/L	10		U		10
MW-44	Chloroform	UG/L	10		U		10
MW-44	Chloromethane	UG/L	10		U		10
MW-44	cis-1,3-Dichloropropene	UG/L	10		U		10
MW-44	Dibromochloromethane	UG/L	10		U		10
MW-44	Ethyl Benzene	UG/L	10		U		10
MW-44	Methylene chloride	UG/L	10	2	J	J	10
MW-44	Styrene	UG/L	10		U		10
MW-44	Tetrachloroethene	UG/L	10		U		10
MW-44	Toluene	UG/L	10		U		10
MW-44	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-44	Trichloroethene	UG/L	10		U		10
MW-44	Vinyl chloride	UG/L	10		U		10
MW-44	Xylenes (total)	UG/L	10		U		10
MW-45	1,1,1-Trichloroethane	UG/L	80		U		50
MW-45	1,1,2,2-Tetrachloroethane	UG/L	80		U		50
MW-45	1,1,2-Trichloroethane	UG/L	80		U		50
MW-45	1,1-Dichloroethane	UG/L	80		U		50
MW-45	1,1-Dichloroethene	UG/L	80		U		50
MW-45	1,2-Dichloroethane	UG/L	80		U		50

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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-45	1,2-Dichloroethene (total)	UG/L	80		U		50
MW-45	1,2-Dichloropropane	UG/L	80		U		50
MW-45	2-Butanone	UG/L	120		U	UJ	50
MW-45	2-Hexanone	UG/L	120		U	UJ	50
MW-45	4-Methyl-2-pentanone	UG/L	120		U	UJ	50
MW-45	Acetone	UG/L	170		U		50
MW-45	Benzene	UG/L	1,045	360			50
MW-45	Bromodichloromethane	UG/L	80		U		50
MW-45	Bromoform	UG/L	80		U		50
MW-45	Bromomethane	UG/L	80		U		50
MW-45	Carbon disulfide	UG/L	80		U		50
MW-45	Carbon Tetrachloride	UG/L	80		U		50
MW-45	Chlorobenzene	UG/L	80	17	J		50
MW-45	Chloroethane	UG/L	215	38	J		50
MW-45	Chloroform	UG/L	80		U		50
MW-45	Chloromethane	UG/L	80		U		50
MW-45	cis-1,3-Dichloropropene	UG/L	80		U		50
MW-45	Dibromochloromethane	UG/L	80		U		50
MW-45	Ethyl Benzene	UG/L	80		U		50
MW-45	Methylene chloride	UG/L	80		U		50
MW-45	Styrene	UG/L	80		U		50
MW-45	Tetrachloroethene	UG/L	80		U		50
MW-45	Toluene	UG/L	80		U		50
MW-45	trans-1,3-Dichloropropene	UG/L	80		U		50
MW-45	Trichloroethene	UG/L	80		U		50
MW-45	Vinyl chloride	UG/L	80		U		50
MW-45	Xylenes (total)	UG/L	280	16	J		50
MW-46	1,1,1-Trichloroethane	UG/L	10		U		10
MW-46	1,1,2,2-Tetrachloroethane	UG/L	10		U		10
MW-46	1,1,2-Trichloroethane	UG/L	10		U		10
MW-46	1,1-Dichloroethane	UG/L	10		U		10
MW-46	1,1-Dichloroethene	UG/L	10		U		10
MW-46	1,2-Dichloroethane	UG/L	10		U		10
MW-46	1,2-Dichloroethene (total)	UG/L	10		U		10
MW-46	1,2-Dichloropropane	UG/L	10		U		10
MW-46	2-Butanone	UG/L	10		U		10
MW-46	2-Hexanone	UG/L	10		U		10
MW-46	4-Methyl-2-pentanone	UG/L	10		U		10
MW-46	Acetone	UG/L	10		U		10
MW-46	Benzene	UG/L	10		U		10
MW-46	Bromodichloromethane	UG/L	10		U		10
MW-46	Bromoform	UG/L	10		U		10
MW-46	Bromomethane	UG/L	10		U		10
MW-46	Carbon disulfide	UG/L	10		U		10
MW-46	Carbon Tetrachloride	UG/L	10		U		10
MW-46	Chlorobenzene	UG/L	10		U		10

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Comparison of Results to Baseline Highest Detections
June 1999
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Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-46	Chloroethane	UG/L	10		U		10
MW-46	Chloroform	UG/L	10		U		10
MW-46	Chloromethane	UG/L	10		U		10
MW-46	cis-1,3-Dichloropropene	UG/L	10		U		10
MW-46	Dibromochloromethane	UG/L	10		U		10
MW-46	Ethyl Benzene	UG/L	10		U		10
MW-46	Methylene chloride	UG/L	10	3	J	J	10
MW-46	Styrene	UG/L	10		U		10
MW-46	Tetrachloroethene	UG/L	10		U		10
MW-46	Toluene	UG/L	10		U		10
MW-46	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-46	Trichloroethene	UG/L	10		U		10
MW-46	Vinyl chloride	UG/L	10		U		10
MW-46	Xylenes (total)	UG/L	10		U		10
MW-47	1,1,1-Trichloroethane	UG/L	10		U		10
MW-47	1,1,2,2-Tetrachloroethane	UG/L	10		U		10
MW-47	1,1,2-Trichloroethane	UG/L	10		U		10
MW-47	1,1-Dichloroethane	UG/L	10		U		10
MW-47	1,1-Dichloroethene	UG/L	10		U		10
MW-47	1,2-Dichloroethane	UG/L	10		U		10
MW-47	1,2-Dichloroethene (total)	UG/L	10		U		10
MW-47	1,2-Dichloropropane	UG/L	10		U		10
MW-47	2-Butanone	UG/L	10		U		10
MW-47	2-Hexanone	UG/L	10		U		10
MW-47	4-Methyl-2-pentanone	UG/L	10		U		10
MW-47	Acetone	UG/L	10		U		10
MW-47	Benzene	UG/L	10		U		10
MW-47	Bromodichloromethane	UG/L	10		U		10
MW-47	Bromoform	UG/L	10		U		10
MW-47	Bromomethane	UG/L	10		U		10
MW-47	Carbon disulfide	UG/L	10		U		10
MW-47	Carbon Tetrachloride	UG/L	10		U		10
MW-47	Chlorobenzene	UG/L	10		U		10
MW-47	Chloroethane	UG/L	10		U		10
MW-47	Chloroform	UG/L	10		U		10
MW-47	Chloromethane	UG/L	10		U		10
MW-47	cis-1,3-Dichloropropene	UG/L	10		U		10
MW-47	Dibromochloromethane	UG/L	10		U		10
MW-47	Ethyl Benzene	UG/L	10		U		10
MW-47	Methylene chloride	UG/L	10	2	J	J	10
MW-47	Styrene	UG/L	10		U		10
MW-47	Tetrachloroethene	UG/L	10		U		10
MW-47	Toluene	UG/L	10		U		10
MW-47	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-47	Trichloroethene	UG/L	10		U		10
MW-47	Vinyl chloride	UG/L	10		U		10

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Comparison of Results to Baseline Highest Detections
June 1999
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Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-47	Xylenes (total)	UG/L	10		U		10
MW-48	1,1,1-Trichloroethane	UG/L	500		U		500
MW-48	1,1,2,2-Tetrachloroethane	UG/L	500		U		500
MW-48	1,1,2-Trichloroethane	UG/L	500		U		500
MW-48	1,1-Dichloroethane	UG/L	500		U		500
MW-48	1,1-Dichloroethene	UG/L	500		U		500
MW-48	1,2-Dichloroethane	UG/L	500		U		500
MW-48	1,2-Dichloroethene (total)	UG/L	500		U		500
MW-48	1,2-Dichloropropane	UG/L	500		U		500
MW-48	2-Butanone	UG/L	2,500		U		500
MW-48	2-Hexanone	UG/L	2,500	57	DJB	J	500
MW-48	4-Methyl-2-pentanone	UG/L	2,500		U		500
MW-48	Acetone	UG/L	2,500		U		500
MW-48	Benzene	UG/L	9,500	5,700	D		500
MW-48	Bromodichloromethane	UG/L	500		U		500
MW-48	Bromoform	UG/L	500		U		500
MW-48	Bromomethane	UG/L	500		U		500
MW-48	Carbon disulfide	UG/L	500		U		500
MW-48	Carbon Tetrachloride	UG/L	500		U		500
MW-48	Chlorobenzene	UG/L	500		U		500
MW-48	Chloroethane	UG/L	1,000	290	DJ		500
MW-48	Chloroform	UG/L	500		U		500
MW-48	Chloromethane	UG/L	500		U		500
MW-48	cis-1,3-Dichloropropene	UG/L	500		U		500
MW-48	Dibromochloromethane	UG/L	500		U		500
MW-48	Ethyl Benzene	UG/L	500		U		500
MW-48	Methylene chloride	UG/L	500		U	J	500
MW-48	Styrene	UG/L	500		U		500
MW-48	Tetrachloroethene	UG/L	500		U		500
MW-48	Toluene	UG/L	500		U		500
MW-48	trans-1,3-Dichloropropene	UG/L	500		U		500
MW-48	Trichloroethene	UG/L	500		U		500
MW-48	Vinyl chloride	UG/L	500		U		500
MW-48	Xylenes (total)	UG/L	500		U		500
MW-49	1,1,1-Trichloroethane	UG/L	500		U	UJ	500
MW-49	1,1,2,2-Tetrachloroethane	UG/L	500		U	UJ	500
MW-49	1,1,2-Trichloroethane	UG/L	500		U	UJ	500
MW-49	1,1-Dichloroethane	UG/L	500		U	UJ	500
MW-49	1,1-Dichloroethene	UG/L	500		U	UJ	500
MW-49	1,2-Dichloroethane	UG/L	500		U	UJ	500
MW-49	1,2-Dichloroethene (total)	UG/L	500	2	U	J	500
MW-49	1,2-Dichloropropane	UG/L	500		U	UJ	500
MW-49	2-Butanone	UG/L	2,500	1	U	JB	500
MW-49	2-Hexanone	UG/L	2,500		U	UJ	500
MW-49	4-Methyl-2-pentanone	UG/L	2,500		U	UJ	500
MW-49	Acetone	UG/L	2,500	9	U	JB	500

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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-49	Benzene	UG/L	6,750	2,600	D	JD	500
MW-49	Bromodichloromethane	UG/L	500		U	UJ	500
MW-49	Bromoform	UG/L	500		U	UJ	500
MW-49	Bromomethane	UG/L	500		U	UJ	500
MW-49	Carbon disulfide	UG/L	500		U	UJ	500
MW-49	Carbon Tetrachloride	UG/L	500		U	UJ	500
MW-49	Chlorobenzene	UG/L	500		U	UJ	500
MW-49	Chloroethane	UG/L	715	220	DJ	DJ	500
MW-49	Chloroform	UG/L	500		U	UJ	500
MW-49	Chloromethane	UG/L	500		U	UJ	500
MW-49	cis-1,3-Dichloropropene	UG/L	500		U	UJ	500
MW-49	Dibromochloromethane	UG/L	500		U	UJ	500
MW-49	Ethyl Benzene	UG/L	500		U	UJ	500
MW-49	Methylene chloride	UG/L	450	2	U	J	500
MW-49	Styrene	UG/L	500		U	UJ	500
MW-49	Tetrachloroethene	UG/L	500		U	UJ	500
MW-49	Toluene	UG/L	500	1	U	J	500
MW-49	trans-1,3-Dichloropropene	UG/L	500		U	UJ	500
MW-49	Trichloroethene	UG/L	500		U	UJ	500
MW-49	Vinyl chloride	UG/L	500		U	UJ	500
MW-49	Xylenes (total)	UG/L	500		U	UJ	500
MW-50	1,1,1-Trichloroethane	UG/L	10		U		10
MW-50	1,1,2,2-Tetrachloroethane	UG/L	10		U		10
MW-50	1,1,2-Trichloroethane	UG/L	10		U		10
MW-50	1,1-Dichloroethane	UG/L	10		U		10
MW-50	1,1-Dichloroethene	UG/L	10		U		10
MW-50	1,2-Dichloroethane	UG/L	10		U		10
MW-50	1,2-Dichloroethene (total)	UG/L	10		U		10
MW-50	1,2-Dichloropropane	UG/L	10		U		10
MW-50	2-Butanone	UG/L	10		U	UJ	10
MW-50	2-Hexanone	UG/L	10		U	UJ	10
MW-50	4-Methyl-2-pentanone	UG/L	10		U	UJ	10
MW-50	Acetone	UG/L	10	2	JB	JB	10
MW-50	Benzene	UG/L	10		U		10
MW-50	Bromodichloromethane	UG/L	10		U		10
MW-50	Bromoform	UG/L	10		U		10
MW-50	Bromomethane	UG/L	10		U		10
MW-50	Carbon disulfide	UG/L	10		U		10
MW-50	Carbon Tetrachloride	UG/L	10		U		10
MW-50	Chlorobenzene	UG/L	10		U		10
MW-50	Chloroethane	UG/L	10		U		10
MW-50	Chloroform	UG/L	10		U		10
MW-50	Chloromethane	UG/L	10		U		10
MW-50	cis-1,3-Dichloropropene	UG/L	10		U		10
MW-50	Dibromochloromethane	UG/L	10		U		10
MW-50	Ethyl Benzene	UG/L	10		U		10

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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-50	Methylene chloride	UG/L	10	3	J		10
MW-50	Styrene	UG/L	10		U		10
MW-50	Tetrachloroethene	UG/L	10		U		10
MW-50	Toluene	UG/L	10		U		10
MW-50	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-50	Trichloroethene	UG/L	10		U		10
MW-50	Vinyl chloride	UG/L	10		U		10
MW-50	Xylenes (total)	UG/L	10		U		10
MW-51	1,1,1-Trichloroethane	UG/L	100		U		10
MW-51	1,1,2,2-Tetrachloroethane	UG/L	100		U		10
MW-51	1,1,2-Trichloroethane	UG/L	100		U		10
MW-51	1,1-Dichloroethane	UG/L	100		U		10
MW-51	1,1-Dichloroethene	UG/L	100		U		10
MW-51	1,2-Dichloroethane	UG/L	100		U		10
MW-51	1,2-Dichloroethene (total)	UG/L	100		U		10
MW-51	1,2-Dichloropropane	UG/L	100		U		10
MW-51	2-Butanone	UG/L	100		U		10
MW-51	2-Hexanone	UG/L	100		U		10
MW-51	4-Methyl-2-pentanone	UG/L	100		U		10
MW-51	Acetone	UG/L	100		U		10
MW-51	Benzene	UG/L	100		U		10
MW-51	Bromodichloromethane	UG/L	100		U		10
MW-51	Bromoform	UG/L	100		U		10
MW-51	Bromomethane	UG/L	100		U		10
MW-51	Carbon disulfide	UG/L	100		U		10
MW-51	Carbon Tetrachloride	UG/L	100		U		10
MW-51	Chlorobenzene	UG/L	100		U		10
MW-51	Chloroethane	UG/L	100		U		10
MW-51	Chloroform	UG/L	100		U		10
MW-51	Chloromethane	UG/L	100		U		10
MW-51	cis-1,3-Dichloropropene	UG/L	100		U		10
MW-51	Dibromochloromethane	UG/L	100		U		10
MW-51	Ethyl Benzene	UG/L	100		U		10
MW-51	Methylene chloride	UG/L	100	8	J	J	10
MW-51	Styrene	UG/L	100		U		10
MW-51	Tetrachloroethene	UG/L	100		U		10
MW-51	Toluene	UG/L	100		U		10
MW-51	trans-1,3-Dichloropropene	UG/L	100		U		10
MW-51	Trichloroethene	UG/L	100		U		10
MW-51	Vinyl chloride	UG/L	100		U		10
MW-51	Xylenes (total)	UG/L	100		U		10
MW-52	1,1,1-Trichloroethane	UG/L	100		U	UJ	100
MW-52	1,1,2,2-Tetrachloroethane	UG/L	100		U	UJ	100
MW-52	1,1,2-Trichloroethane	UG/L	100		U	UJ	100
MW-52	1,1-Dichloroethane	UG/L	100		U	UJ	100
MW-52	1,1-Dichloroethene	UG/L	100		U	UJ	100

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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
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Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-52	1,2-Dichloroethane	UG/L	100		U	UJ	100
MW-52	1,2-Dichloroethene (total)	UG/L	100		U	UJ	100
MW-52	1,2-Dichloropropane	UG/L	100		U	UJ	100
MW-52	2-Butanone	UG/L	100		U	UJ	100
MW-52	2-Hexanone	UG/L	100		U	UJ	100
MW-52	4-Methyl-2-pentanone	UG/L	100		U	UJ	100
MW-52	Acetone	UG/L	100		U	UJ	100
MW-52	Benzene	UG/L	100		U	UJ	100
MW-52	Bromodichloromethane	UG/L	100		U	UJ	100
MW-52	Bromoform	UG/L	100		U	UJ	100
MW-52	Bromomethane	UG/L	100		U	UJ	100
MW-52	Carbon disulfide	UG/L	100		U	UJ	100
MW-52	Carbon Tetrachloride	UG/L	100		U	UJ	100
MW-52	Chlorobenzene	UG/L	100		U	UJ	100
MW-52	Chloroethane	UG/L	100		U	UJ	100
MW-52	Chloroform	UG/L	100		U	UJ	100
MW-52	Chloromethane	UG/L	100		U	UJ	100
MW-52	cis-1,3-Dichloropropene	UG/L	100		U	UJ	100
MW-52	Dibromochloromethane	UG/L	100		U	UJ	100
MW-52	Ethyl Benzene	UG/L	100		U	UJ	100
MW-52	Methylene chloride	UG/L	100		U	UJ	100
MW-52	Styrene	UG/L	100		U	UJ	100
MW-52	Tetrachloroethene	UG/L	100		U	UJ	100
MW-52	Toluene	UG/L	100		U	UJ	100
MW-52	trans-1,3-Dichloropropene	UG/L	100		U	UJ	100
MW-52	Trichloroethene	UG/L	100		U	UJ	100
MW-52	Vinyl chloride	UG/L	100		U	UJ	100
MW-52	Xylenes (total)	UG/L	100		U	UJ	100
MW-53	1,1,1-Trichloroethane	UG/L	10		U	UJ	10
MW-53	1,1,2,2-Tetrachloroethane	UG/L	10		U	UJ	10
MW-53	1,1,2-Trichloroethane	UG/L	10		U	UJ	10
MW-53	1,1-Dichloroethane	UG/L	10		U	UJ	10
MW-53	1,1-Dichloroethene	UG/L	10		U	UJ	10
MW-53	1,2-Dichloroethane	UG/L	10		U	UJ	10
MW-53	1,2-Dichloroethene (total)	UG/L	10		U	UJ	10
MW-53	1,2-Dichloropropane	UG/L	10		U	UJ	10
MW-53	2-Butanone	UG/L	10	3	JB	JB	10
MW-53	2-Hexanone	UG/L	10		U	UJ	10
MW-53	4-Methyl-2-pentanone	UG/L	10	3	JB	JB	10
MW-53	Acetone	UG/L	16	**30**	B	JB	10
MW-53	Benzene	UG/L	10	4	J	J	10
MW-53	Bromodichloromethane	UG/L	10		U	UJ	10
MW-53	Bromoform	UG/L	10		U	UJ	10
MW-53	Bromomethane	UG/L	10		U	UJ	10
MW-53	Carbon disulfide	UG/L	10		U	UJ	10
MW-53	Carbon Tetrachloride	UG/L	10		U	UJ	10

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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-53	Chlorobenzene	UG/L	10		U	UJ	10
MW-53	Chloroethane	UG/L	10		U	UJ	10
MW-53	Chloroform	UG/L	10		U	UJ	10
MW-53	Chloromethane	UG/L	10		U	UJ	10
MW-53	cis-1,3-Dichloropropene	UG/L	10		U	UJ	10
MW-53	Dibromochloromethane	UG/L	10		U	UJ	10
MW-53	Ethyl Benzene	UG/L	10		U	UJ	10
MW-53	Methylene chloride	UG/L	10	**100**		J	10
MW-53	Styrene	UG/L	10		U	UJ	10
MW-53	Tetrachloroethene	UG/L	10		U	UJ	10
MW-53	Toluene	UG/L	10	1	J	J	10
MW-53	trans-1,3-Dichloropropene	UG/L	10		U	UJ	10
MW-53	Trichloroethene	UG/L	10		U	UJ	10
MW-53	Vinyl chloride	UG/L	10		U	UJ	10
MW-53	Xylenes (total)	UG/L	10		U	UJ	10
MW-54R	1,1,1-Trichloroethane	UG/L	10		U		10
MW-54R	1,1,2,2-Tetrachloroethane	UG/L	10		U		10
MW-54R	1,1,2-Trichloroethane	UG/L	10		U		10
MW-54R	1,1-Dichloroethane	UG/L	10		U		10
MW-54R	1,1-Dichloroethene	UG/L	10		U		10
MW-54R	1,2-Dichloroethane	UG/L	10		U		10
MW-54R	1,2-Dichloroethene (total)	UG/L	10		U		10
MW-54R	1,2-Dichloropropane	UG/L	10		U		10
MW-54R	2-Butanone	UG/L	10		U		10
MW-54R	2-Hexanone	UG/L	10		U		10
MW-54R	4-Methyl-2-pentanone	UG/L	10		U		10
MW-54R	Acetone	UG/L	10	6	JB	J	10
MW-54R	Benzene	UG/L	10	1	J		10
MW-54R	Bromodichloromethane	UG/L	10		U		10
MW-54R	Bromoform	UG/L	10		U		10
MW-54R	Bromomethane	UG/L	10		U		10
MW-54R	Carbon disulfide	UG/L	10		U		10
MW-54R	Carbon Tetrachloride	UG/L	10		U		10
MW-54R	Chlorobenzene	UG/L	10		U		10
MW-54R	Chloroethane	UG/L	10		U		10
MW-54R	Chloroform	UG/L	10		U		10
MW-54R	Chloromethane	UG/L	10		U		10
MW-54R	cis-1,3-Dichloropropene	UG/L	10		U		10
MW-54R	Dibromochloromethane	UG/L	10		U		10
MW-54R	Ethyl Benzene	UG/L	10		U		10
MW-54R	Methylene chloride	UG/L	10	3	J	J	10
MW-54R	Styrene	UG/L	10		U		10
MW-54R	Tetrachloroethene	UG/L	10		U		10
MW-54R	Toluene	UG/L	10		U		10
MW-54R	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-54R	Trichloroethene	UG/L	10		U		10

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Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-54R	Vinyl chloride	UG/L	10		U		10
MW-54R	Xylenes (total)	UG/L	10		U		10
MW-55	1,1,1-Trichloroethane	UG/L	10		U		10
MW-55	1,1,2,2-Tetrachloroethane	UG/L	10		U		10
MW-55	1,1,2-Trichloroethane	UG/L	10		U		10
MW-55	1,1-Dichloroethane	UG/L	10		U		10
MW-55	1,1-Dichloroethene	UG/L	10		U		10
MW-55	1,2-Dichloroethane	UG/L	10		U		10
MW-55	1,2-Dichloroethene (total)	UG/L	10		U		10
MW-55	1,2-Dichloropropane	UG/L	10		U		10
MW-55	2-Butanone	UG/L	10		U		10
MW-55	2-Hexanone	UG/L	10		U		10
MW-55	4-Methyl-2-pentanone	UG/L	10		U		10
MW-55	Acetone	UG/L	10	3	JB	J	10
MW-55	Benzene	UG/L	10		U		10
MW-55	Bromodichloromethane	UG/L	10		U		10
MW-55	Bromoform	UG/L	10		U		10
MW-55	Bromomethane	UG/L	10		U		10
MW-55	Carbon disulfide	UG/L	10		U		10
MW-55	Carbon Tetrachloride	UG/L	10		U		10
MW-55	Chlorobenzene	UG/L	10		U		10
MW-55	Chloroethane	UG/L	10		U		10
MW-55	Chloroform	UG/L	10		U		10
MW-55	Chloromethane	UG/L	10		U		10
MW-55	cis-1,3-Dichloropropene	UG/L	10		U		10
MW-55	Dibromochloromethane	UG/L	10		U		10
MW-55	Ethyl Benzene	UG/L	10		U		10
MW-55	Methylene chloride	UG/L	10	3	J	J	10
MW-55	Styrene	UG/L	10		U		10
MW-55	Tetrachloroethene	UG/L	10		U		10
MW-55	Toluene	UG/L	10		U		10
MW-55	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-55	Trichloroethene	UG/L	10		U		10
MW-55	Vinyl chloride	UG/L	10		U		10
MW-55	Xylenes (total)	UG/L	10		U		10

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Comparison of Results to Baseline Highest Detections
June 1999
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Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
ATMW-4D	1,2,4-Trichlorobenzene	UG/L		10	U	UJ	NA
ATMW-4D	1,2-Dichlorobenzene	UG/L		10	U	UJ	NA
ATMW-4D	1,3-Dichlorobenzene	UG/L		10	U	UJ	NA
ATMW-4D	1,4-Dichlorobenzene	UG/L		10	U	UJ	NA
ATMW-4D	2,2'-oxybis(1-Chloropropane)	UG/L		10	U	UJ	NA
ATMW-4D	2,4,5-Trichlorophenol	UG/L		26	U	UJ	NA
ATMW-4D	2,4,6-Trichlorophenol	UG/L		10	U	UJ	NA
ATMW-4D	2,4-Dichlorophenol	UG/L		10	U	UJ	NA
ATMW-4D	2,4-Dimethylphenol	UG/L		10	U	UJ	NA
ATMW-4D	2,4-Dinitrophenol	UG/L		26	U	UJ	NA
ATMW-4D	2,4-Dinitrotoluene	UG/L		10	U	UJ	NA
ATMW-4D	2,6-Dinitrotoluene	UG/L		10	U	UJ	NA
ATMW-4D	2-Chloronaphthalene	UG/L		10	U	UJ	NA
ATMW-4D	2-Chlorophenol	UG/L		10	U	UJ	NA
ATMW-4D	2-Methylnaphthalene	UG/L		10	U	UJ	NA
ATMW-4D	2-Methylphenol	UG/L		10	U	UJ	NA
ATMW-4D	2-Nitroaniline	UG/L		26	U	UJ	NA
ATMW-4D	2-Nitrophenol	UG/L		10	U	UJ	NA
ATMW-4D	3,3'-Dichlorobenzidine	UG/L		10	U	UJ	NA
ATMW-4D	3-Nitroaniline	UG/L		26	U	UJ	NA
ATMW-4D	4,6-Dinitro-2-methylphenol	UG/L		26	U	UJ	NA
ATMW-4D	4-Bromophenyl-phenylether	UG/L		10	U	UJ	NA
ATMW-4D	4-Chloro-3-methylphenol	UG/L		10	U	UJ	NA
ATMW-4D	4-Chloroaniline	UG/L		10	U	UJ	NA
ATMW-4D	4-Chlorophenyl-phenyl ether	UG/L		10	U	UJ	NA
ATMW-4D	4-Methylphenol	UG/L		10	U	UJ	NA
ATMW-4D	4-Nitroaniline	UG/L		26	U	UJ	NA
ATMW-4D	4-Nitrophenol	UG/L		26	U	UJ	NA
ATMW-4D	Acenaphthene	UG/L		10	U	UJ	NA
ATMW-4D	Acenaphthylene	UG/L		10	U	UJ	NA
ATMW-4D	Anthracene	UG/L		10	U	UJ	NA
ATMW-4D	Benzo(a)anthracene	UG/L		10	U	UJ	NA
ATMW-4D	Benzo(a)pyrene	UG/L		10	U	UJ	NA
ATMW-4D	Benzo(b)fluoranthene	UG/L		10	U	UJ	NA
ATMW-4D	Benzo(g,h,i)perylene	UG/L		10	U	UJ	NA
ATMW-4D	Benzo(k)fluoranthene	UG/L		10	U	UJ	NA
ATMW-4D	Bis(2-chloroethoxy)methane	UG/L		10	U	UJ	NA
ATMW-4D	bis(2-chloroethyl) ether	UG/L		10	U	UJ	NA
ATMW-4D	Bis(2-ethylhexyl)phthalate	UG/L		1	J	J	0.01
ATMW-4D	Butylbenzylphthalate	UG/L		10	U	UJ	NA
ATMW-4D	Carbazole	UG/L		10	U	UJ	NA
ATMW-4D	Chrysene	UG/L		10	U	UJ	NA
ATMW-4D	Di-n-butylphthalate	UG/L		10	U	UJ	NA
ATMW-4D	Di-n-octylphthalate	UG/L		10	U	UJ	NA
ATMW-4D	Dibenzo(a,h)anthracene	UG/L		10	U	UJ	NA
ATMW-4D	Dibenzofuran	UG/L		10	U	UJ	NA

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CAS/cas
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1252042.221601

Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
ATMW-4D	Diethylphthalate	UG/L		10	U	UJ	NA
ATMW-4D	Dimethylphthalate	UG/L		10	U	UJ	NA
ATMW-4D	Fluoranthene	UG/L		10	U	UJ	NA
ATMW-4D	Fluorene	UG/L		10	U	UJ	NA
ATMW-4D	Hexachlorobenzene	UG/L		10	U	UJ	NA
ATMW-4D	Hexachlorobutadiene	UG/L		10	U	UJ	NA
ATMW-4D	Hexachlorocyclopentadiene	UG/L		10	U	UJ	NA
ATMW-4D	Hexachloroethane	UG/L		10	U	UJ	NA
ATMW-4D	Indeno(1,2,3-cd)pyrene	UG/L		10	U	UJ	NA
ATMW-4D	Isophorone	UG/L		10	U	UJ	NA
ATMW-4D	N-Nitroso-di-n-propylamine	UG/L		10	U	UJ	NA
ATMW-4D	N-Nitrosodiphenylamine	UG/L		10	U	UJ	NA
ATMW-4D	Naphthalene	UG/L		10	U	UJ	NA
ATMW-4D	Nitrobenzene	UG/L		10	U	UJ	NA
ATMW-4D	Pentachlorophenol	UG/L		26	U	UJ	NA
ATMW-4D	Phenanthrene	UG/L		10	U	UJ	NA
ATMW-4D	Phenol	UG/L		10	U	UJ	NA
ATMW-4D	Pyrene	UG/L		10	U	UJ	NA
M-4S	1,2,4-Trichlorobenzene	UG/L	10	**11**	U		NA
M-4S	1,2-Dichlorobenzene	UG/L	10	**11**	U		NA
M-4S	1,3-Dichlorobenzene	UG/L	10	**11**	U		NA
M-4S	1,4-Dichlorobenzene	UG/L	10	**11**	U		NA
M-4S	2,2'-oxybis(1-Chloropropane)	UG/L	10	**11**	U		NA
M-4S	2,4,5-Trichlorophenol	UG/L	25	**28**	U		NA
M-4S	2,4,6-Trichlorophenol	UG/L	10	**11**	U		NA
M-4S	2,4-Dichlorophenol	UG/L	10	**11**	U		NA
M-4S	2,4-Dimethylphenol	UG/L	10	**11**	U		NA
M-4S	2,4-Dinitrophenol	UG/L	25	**28**	U		NA
M-4S	2,4-Dinitrotoluene	UG/L	10	**11**	U		NA
M-4S	2,6-Dinitrotoluene	UG/L	10	**11**	U		NA
M-4S	2-Chloronaphthalene	UG/L	10	**11**	U		NA
M-4S	2-Chlorophenol	UG/L	10	**11**	U		NA
M-4S	2-Methylnaphthalene	UG/L	10	**11**	U	UJ	NA
M-4S	2-Methylphenol	UG/L	10	**11**	U		NA
M-4S	2-Nitroaniline	UG/L	25	**28**	U		NA
M-4S	2-Nitrophenol	UG/L	10	**11**	U		NA
M-4S	3,3'-Dichlorobenzidine	UG/L	10	**11**	U		NA
M-4S	3-Nitroaniline	UG/L	25	**28**	U		NA
M-4S	4,6-Dinitro-2-methylphenol	UG/L	25	**28**	U		NA
M-4S	4-Bromophenyl-phenylether	UG/L	10	**11**	U		NA
M-4S	4-Chloro-3-methylphenol	UG/L	10	**11**	U		NA
M-4S	4-Chloroaniline	UG/L	10	**11**	U		NA
M-4S	4-Chlorophenyl-phenyl ether	UG/L	10	**11**	U		NA
M-4S	4-Methylphenol	UG/L	10	**11**	U		NA
M-4S	4-Nitroaniline	UG/L	25	**28**	U	UJ	NA
M-4S	4-Nitrophenol	UG/L	25	**28**	U		NA

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Comparison of Results to Baseline Highest Detections
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American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
M-4S	Acenaphthene	UG/L	10	11	U		NA
M-4S	Acenaphthylene	UG/L	10	11	U		NA
M-4S	Anthracene	UG/L	10	11	U		NA
M-4S	Benzo(a)anthracene	UG/L	10	11	U		NA
M-4S	Benzo(a)pyrene	UG/L	10	11	U		NA
M-4S	Benzo(b)fluoranthene	UG/L	10	11	U		NA
M-4S	Benzo(g,h,i)perylene	UG/L	10	11	U		NA
M-4S	Benzo(k)fluoranthene	UG/L	10	11	U		NA
M-4S	Bis(2-chloroethoxy)methane	UG/L	10	11	U		NA
M-4S	bis(2-chloroethyl) ether	UG/L	71	72			0.01
M-4S	Bis(2-ethylhexyl)phthalate	UG/L	10	11	U		NA
M-4S	Butylbenzylphthalate	UG/L	10	11	U		NA
M-4S	Carbazole	UG/L	10	11	U	UJ	NA
M-4S	Chrysene	UG/L	10	11	U		NA
M-4S	Di-n-butylphthalate	UG/L	10	11	U		NA
M-4S	Di-n-octylphthalate	UG/L	10	11	U		NA
M-4S	Dibenzo(a,h)anthracene	UG/L	10	11	U		NA
M-4S	Dibenzofuran	UG/L	10	11	U		NA
M-4S	Diethylphthalate	UG/L	10	11	U		NA
M-4S	Dimethylphthalate	UG/L	10	11	U		NA
M-4S	Fluoranthene	UG/L	10	11	U	UJ	NA
M-4S	Fluorene	UG/L	10	11	U		NA
M-4S	Hexachlorobenzene	UG/L	10	11	U		NA
M-4S	Hexachlorobutadiene	UG/L	10	11	U		NA
M-4S	Hexachlorocyclopentadiene	UG/L	10	11	U		NA
M-4S	Hexachloroethane	UG/L	10	11	U		NA
M-4S	Indeno(1,2,3-cd)pyrene	UG/L	10	11	U		NA
M-4S	Isophorone	UG/L	10	11	U		NA
M-4S	N-Nitroso-di-n-propylamine	UG/L	10	11	U		NA
M-4S	N-Nitrosodiphenylamine	UG/L	10	11	U		NA
M-4S	Naphthalene	UG/L	10	11	U		NA
M-4S	Nitrobenzene	UG/L	10	11	U		NA
M-4S	Pentachlorophenol	UG/L	25	28	U		NA
M-4S	Phenanthrene	UG/L	10	11	U		NA
M-4S	Phenol	UG/L	25	11	U		NA
M-4S	Pyrene	UG/L	10	11	U		NA
MW-06	1,2,4-Trichlorobenzene	UG/L	20	10	U		NA
MW-06	1,2-Dichlorobenzene	UG/L	20	10	U		NA
MW-06	1,3-Dichlorobenzene	UG/L	20	10	U		NA
MW-06	1,4-Dichlorobenzene	UG/L	20	10	U		NA
MW-06	2,2'-oxybis(1-Chloropropane)	UG/L	20	10	U	UJ	NA
MW-06	2,4,5-Trichlorophenol	UG/L	50	26	U		NA
MW-06	2,4,6-Trichlorophenol	UG/L	20	10	U		NA
MW-06	2,4-Dichlorophenol	UG/L	20	10	U		NA
MW-06	2,4-Dimethylphenol	UG/L	20	10	U		NA
MW-06	2,4-Dinitrophenol	UG/L	50	26	U		NA

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Comparison of Results to Baseline Highest Detections
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Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-06	2,4-Dinitrotoluene	UG/L	20	10	U		NA
MW-06	2,6-Dinitrotoluene	UG/L	20	10	U		NA
MW-06	2-Chloronaphthalene	UG/L	20	10	U		NA
MW-06	2-Chlorophenol	UG/L	20	10	U		NA
MW-06	2-Methylnaphthalene	UG/L	20	10	U		NA
MW-06	2-Methylphenol	UG/L	20	10	U		NA
MW-06	2-Nitroaniline	UG/L	50	26	U		NA
MW-06	2-Nitrophenol	UG/L	20	10	U		NA
MW-06	3,3'-Dichlorobenzidine	UG/L	20	10	U	UJ	NA
MW-06	3-Nitroaniline	UG/L	50	26	U		NA
MW-06	4,6-Dinitro-2-methylphenol	UG/L	50	26	U		NA
MW-06	4-Bromophenyl-phenylether	UG/L	20	10	U		NA
MW-06	4-Chloro-3-methylphenol	UG/L	20	10	U		NA
MW-06	4-Chloroaniline	UG/L	20	10	U		NA
MW-06	4-Chlorophenyl-phenyl ether	UG/L	20	10	U		NA
MW-06	4-Methylphenol	UG/L	20	10	U		NA
MW-06	4-Nitroaniline	UG/L	50	26	U	UJ	NA
MW-06	4-Nitrophenol	UG/L	50	26	U		NA
MW-06	Acenaphthene	UG/L	20	10	U		NA
MW-06	Acenaphthylene	UG/L	20	10	U		NA
MW-06	Anthracene	UG/L	20	10	U		NA
MW-06	Benzo(a)anthracene	UG/L	20	10	U		NA
MW-06	Benzo(a)pyrene	UG/L	20	10	U		NA
MW-06	Benzo(b)fluoranthene	UG/L	20	10	U		NA
MW-06	Benzo(g,h,i)perylene	UG/L	20	10	U		NA
MW-06	Benzo(k)fluoranthene	UG/L	20	10	U		NA
MW-06	Bis(2-chloroethoxy)methane	UG/L	20	10	U		NA
MW-06	bis(2-chloroethyl) ether	UG/L	56	13			0.01
MW-06	Bis(2-ethylhexyl)phthalate	UG/L	20	10	U		NA
MW-06	Butylbenzylphthalate	UG/L	20	10	U		NA
MW-06	Carbazole	UG/L	20	10	U		NA
MW-06	Chrysene	UG/L	20	10	U		NA
MW-06	Di-n-butylphthalate	UG/L	20	10	U		NA
MW-06	Di-n-octylphthalate	UG/L	20	10	U		NA
MW-06	Dibenzo(a,h)anthracene	UG/L	20	10	U		NA
MW-06	Dibenzofuran	UG/L	20	10	U		NA
MW-06	Diethylphthalate	UG/L	20	10	U		NA
MW-06	Dimethylphthalate	UG/L	20	10	U		NA
MW-06	Fluoranthene	UG/L	20	10	U		NA
MW-06	Fluorene	UG/L	20	10	U		NA
MW-06	Hexachlorobenzene	UG/L	20	10	U		NA
MW-06	Hexachlorobutadiene	UG/L	20	10	U		NA
MW-06	Hexachlorocyclopentadiene	UG/L	20	10	U		NA
MW-06	Hexachloroethane	UG/L	20	10	U		NA
MW-06	Indeno(1,2,3-cd)pyrene	UG/L	20	10	U		NA
MW-06	Isophorone	UG/L	20	3	J	J	0.01

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American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-06	N-Nitroso-di-n-propylamine	UG/L	20	10	U		NA
MW-06	N-Nitrosodiphenylamine	UG/L	20	10	U		NA
MW-06	Naphthalene	UG/L	20	10	U		NA
MW-06	Nitrobenzene	UG/L	20	10	U	UJ	NA
MW-06	Pentachlorophenol	UG/L	50	26	U	UJ	NA
MW-06	Phenanthrene	UG/L	20	10	U		NA
MW-06	Phenol	UG/L	60	10	U		NA
MW-06	Pyrene	UG/L	20	10	U		NA
MW-08	1,2,4-Trichlorobenzene	UG/L	20	10	U	UJ	NA
MW-08	1,2-Dichlorobenzene	UG/L	20	10	U	UJ	NA
MW-08	1,3-Dichlorobenzene	UG/L	20	10	U	UJ	NA
MW-08	1,4-Dichlorobenzene	UG/L	20	10	U	UJ	NA
MW-08	2,2'-oxybis(1-Chloropropane)	UG/L	20	10	U	UJ	NA
MW-08	2,4,5-Trichlorophenol	UG/L	50	26	U	UJ	NA
MW-08	2,4,6-Trichlorophenol	UG/L	20	10	U	UJ	NA
MW-08	2,4-Dichlorophenol	UG/L	20	10	U	UJ	NA
MW-08	2,4-Dimethylphenol	UG/L	20	10	U	UJ	NA
MW-08	2,4-Dinitrophenol	UG/L	50	26	U	UJ	NA
MW-08	2,4-Dinitrotoluene	UG/L	20	10	U	UJ	NA
MW-08	2,6-Dinitrotoluene	UG/L	20	10	U	UJ	NA
MW-08	2-Chloronaphthalene	UG/L	20	10	U	UJ	NA
MW-08	2-Chlorophenol	UG/L	20	10	U	UJ	NA
MW-08	2-Methylnaphthalene	UG/L	20	10	U	UJ	NA
MW-08	2-Methylphenol	UG/L	20	10	U	UJ	NA
MW-08	2-Nitroaniline	UG/L	50	26	U	UJ	NA
MW-08	2-Nitrophenol	UG/L	20	10	U	UJ	NA
MW-08	3,3'-Dichlorobenzidine	UG/L	20	10	U	UJ	NA
MW-08	3-Nitroaniline	UG/L	50	26	U	UJ	NA
MW-08	4,6-Dinitro-2-methylphenol	UG/L	50	26	U	UJ	NA
MW-08	4-Bromophenyl-phenylether	UG/L	20	10	U	UJ	NA
MW-08	4-Chloro-3-methylphenol	UG/L	20	10	U	UJ	NA
MW-08	4-Chloroaniline	UG/L	20	10	U	UJ	NA
MW-08	4-Chlorophenyl-phenyl ether	UG/L	20	10	U	UJ	NA
MW-08	4-Methylphenol	UG/L	20	10	U	UJ	NA
MW-08	4-Nitroaniline	UG/L	50	26	U	UJ	NA
MW-08	4-Nitrophenol	UG/L	50	26	U	UJ	NA
MW-08	Acenaphthene	UG/L	20	10	U	UJ	NA
MW-08	Acenaphthylene	UG/L	20	10	U	UJ	NA
MW-08	Anthracene	UG/L	20	10	U	UJ	NA
MW-08	Benzo(a)anthracene	UG/L	20	10	U	UJ	NA
MW-08	Benzo(a)pyrene	UG/L	20	10	U	UJ	NA
MW-08	Benzo(b)fluoranthene	UG/L	20	10	U	UJ	NA
MW-08	Benzo(g,h,i)perylene	UG/L	20	10	U	UJ	NA
MW-08	Benzo(k)fluoranthene	UG/L	20	10	U	UJ	NA
MW-08	Bis(2-chloroethoxy)methane	UG/L	20	10	U	UJ	NA
MW-08	bis(2-chloroethyl) ether	UG/L	20	10	U	UJ	NA

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				Result	LQ	DQ	Detect Limit
MW-08	Bis(2-ethylhexyl)phthalate	UG/L	20	10	U	UJ	NA
MW-08	Butylbenzylphthalate	UG/L	20	10	U	UJ	NA
MW-08	Carbazole	UG/L	20	10	U	UJ	NA
MW-08	Chrysene	UG/L	20	10	U	UJ	NA
MW-08	Di-n-butylphthalate	UG/L	20	10	U	UJ	NA
MW-08	Di-n-octylphthalate	UG/L	20	10	U	UJ	NA
MW-08	Dibenzo(a,h)anthracene	UG/L	20	10	U	UJ	NA
MW-08	Dibenzofuran	UG/L	20	10	U	UJ	NA
MW-08	Diethylphthalate	UG/L	20	10	U	UJ	NA
MW-08	Dimethylphthalate	UG/L	20	10	U	UJ	NA
MW-08	Fluoranthene	UG/L	20	10	U	UJ	NA
MW-08	Fluorene	UG/L	20	10	U	UJ	NA
MW-08	Hexachlorobenzene	UG/L	20	10	U	UJ	NA
MW-08	Hexachlorobutadiene	UG/L	20	10	U	UJ	NA
MW-08	Hexachlorocyclopentadiene	UG/L	20	10	U	UJ	NA
MW-08	Hexachloroethane	UG/L	20	10	U	UJ	NA
MW-08	Indeno(1,2,3-cd)pyrene	UG/L	20	10	U	UJ	NA
MW-08	Isophorone	UG/L	20	10	U	UJ	NA
MW-08	N-Nitroso-di-n-propylamine	UG/L	20	10	U	UJ	NA
MW-08	N-Nitrosodiphenylamine	UG/L	20	10	U	UJ	NA
MW-08	Naphthalene	UG/L	20	10	U	UJ	NA
MW-08	Nitrobenzene	UG/L	20	10	U	UJ	NA
MW-08	Pentachlorophenol	UG/L	50	26	U	UJ	NA
MW-08	Phenanthrene	UG/L	20	10	U	UJ	NA
MW-08	Phenol	UG/L	140	10	U	UJ	NA
MW-08	Pyrene	UG/L	20	10	U	UJ	NA
MW-09R	1,2,4-Trichlorobenzene	UG/L	50	10	U		NA
MW-09R	1,2-Dichlorobenzene	UG/L	50	10	U		NA
MW-09R	1,3-Dichlorobenzene	UG/L	50	10	U		NA
MW-09R	1,4-Dichlorobenzene	UG/L	50	10	U		NA
MW-09R	2,2'-oxybis(1-Chloropropane)	UG/L	50	10	U	UJ	NA
MW-09R	2,4,5-Trichlorophenol	UG/L	125	25	U		NA
MW-09R	2,4,6-Trichlorophenol	UG/L	50	10	U		NA
MW-09R	2,4-Dichlorophenol	UG/L	50	10	U		NA
MW-09R	2,4-Dimethylphenol	UG/L	50	10	U		NA
MW-09R	2,4-Dinitrophenol	UG/L	125	25	U		NA
MW-09R	2,4-Dinitrotoluene	UG/L	50	10	U		NA
MW-09R	2,6-Dinitrotoluene	UG/L	50	10	U		NA
MW-09R	2-Chloronaphthalene	UG/L	50	10	U		NA
MW-09R	2-Chlorophenol	UG/L	50	10	U		NA
MW-09R	2-Methylnaphthalene	UG/L	50	10	U		NA
MW-09R	2-Methylphenol	UG/L	50	10	U		NA
MW-09R	2-Nitroaniline	UG/L	125	25	U		NA
MW-09R	2-Nitrophenol	UG/L	50	10	U		NA
MW-09R	3,3'-Dichlorobenzidine	UG/L	50	10	U	UJ	NA
MW-09R	3-Nitroaniline	UG/L	125	25	U		NA

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				Result	LQ	DQ	Detect Limit
MW-09R	4,6-Dinitro-2-methylphenol	UG/L	125	25	U		NA
MW-09R	4-Bromophenyl-phenylether	UG/L	50	10	U		NA
MW-09R	4-Chloro-3-methylphenol	UG/L	50	10	U		NA
MW-09R	4-Chloroaniline	UG/L	50	10	U		NA
MW-09R	4-Chlorophenyl-phenyl ether	UG/L	50	10	U		NA
MW-09R	4-Methylphenol	UG/L	50	10	U		NA
MW-09R	4-Nitroaniline	UG/L	125	25	U		NA
MW-09R	4-Nitrophenol	UG/L	125	25	U	UJ	NA
MW-09R	Acenaphthene	UG/L	50	10	U		NA
MW-09R	Acenaphthylene	UG/L	50	10	U		NA
MW-09R	Anthracene	UG/L	50	10	U		NA
MW-09R	Benzo(a)anthracene	UG/L	50	10	U		NA
MW-09R	Benzo(a)pyrene	UG/L	50	10	U		NA
MW-09R	Benzo(b)fluoranthene	UG/L	50	10	U		NA
MW-09R	Benzo(g,h,i)perylene	UG/L	50	10	U		NA
MW-09R	Benzo(k)fluoranthene	UG/L	50	10	U		NA
MW-09R	Bis(2-chloroethoxy)methane	UG/L	50	10	U		NA
MW-09R	bis(2-chloroethyl) ether	UG/L	50	13			0.01
MW-09R	Bis(2-ethylhexyl)phthalate	UG/L	50	10	U		NA
MW-09R	Butylbenzylphthalate	UG/L	50	10	U		NA
MW-09R	Carbazole	UG/L	50	10	U		NA
MW-09R	Chrysene	UG/L	50	10	U		NA
MW-09R	Di-n-butylphthalate	UG/L	50	10	U		NA
MW-09R	Di-n-octylphthalate	UG/L	50	10	U		NA
MW-09R	Dibenzo(a,h)anthracene	UG/L	50	10	U		NA
MW-09R	Dibenzofuran	UG/L	50	10	U		NA
MW-09R	Diethylphthalate	UG/L	50	10	U		NA
MW-09R	Dimethylphthalate	UG/L	50	10	U		NA
MW-09R	Fluoranthene	UG/L	50	10	U		NA
MW-09R	Fluorene	UG/L	50	10	U		NA
MW-09R	Hexachlorobenzene	UG/L	50	10	U		NA
MW-09R	Hexachlorobutadiene	UG/L	50	10	U		NA
MW-09R	Hexachlorocyclopentadiene	UG/L	50	10	U		NA
MW-09R	Hexachloroethane	UG/L	50	10	U		NA
MW-09R	Indeno(1,2,3-cd)pyrene	UG/L	50	10	U		NA
MW-09R	Isophorone	UG/L	50	10	U		NA
MW-09R	N-Nitroso-di-n-propylamine	UG/L	50	10	U		NA
MW-09R	N-Nitrosodiphenylamine	UG/L	50	10	U		NA
MW-09R	Naphthalene	UG/L	50	10	U		NA
MW-09R	Nitrobenzene	UG/L	50	10	U	UJ	NA
MW-09R	Pentachlorophenol	UG/L	125	25	U	UJ	NA
MW-09R	Phenanthrene	UG/L	50	10	U		NA
MW-09R	Phenol	UG/L	50	10	U		NA
MW-09R	Pyrene	UG/L	50	10	U		NA
MW-10C	1,2,4-Trichlorobenzene	UG/L	10	10	U		NA
MW-10C	1,2-Dichlorobenzene	UG/L	10	10	U		NA

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CAS/cas
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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-10C	1,3-Dichlorobenzene	UG/L	10	10	U		NA
MW-10C	1,4-Dichlorobenzene	UG/L	10	10	U		NA
MW-10C	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U	UJ	NA
MW-10C	2,4,5-Trichlorophenol	UG/L	25	**26**	U		NA
MW-10C	2,4,6-Trichlorophenol	UG/L	10	10	U		NA
MW-10C	2,4-Dichlorophenol	UG/L	10	10	U		NA
MW-10C	2,4-Dimethylphenol	UG/L	10	10	U		NA
MW-10C	2,4-Dinitrophenol	UG/L	25	**26**	U		NA
MW-10C	2,4-Dinitrotoluene	UG/L	10	10	U		NA
MW-10C	2,6-Dinitrotoluene	UG/L	10	10	U		NA
MW-10C	2-Chloronaphthalene	UG/L	10	10	U		NA
MW-10C	2-Chlorophenol	UG/L	10	10	U		NA
MW-10C	2-Methylnaphthalene	UG/L	10	10	U		NA
MW-10C	2-Methylphenol	UG/L	10	10	U		NA
MW-10C	2-Nitroaniline	UG/L	25	**26**	U		NA
MW-10C	2-Nitrophenol	UG/L	10	10	U		NA
MW-10C	3,3'-Dichlorobenzidine	UG/L	10	10	U	UJ	NA
MW-10C	3-Nitroaniline	UG/L	25	**26**	U		NA
MW-10C	4,6-Dinitro-2-methylphenol	UG/L	25	**26**	U		NA
MW-10C	4-Bromophenyl-phenylether	UG/L	10	10	U		NA
MW-10C	4-Chloro-3-methylphenol	UG/L	10	10	U		NA
MW-10C	4-Chloroaniline	UG/L	10	10	U		NA
MW-10C	4-Chlorophenyl-phenyl ether	UG/L	10	10	U		NA
MW-10C	4-Methylphenol	UG/L	10	10	U		NA
MW-10C	4-Nitroaniline	UG/L	25	**26**	U		NA
MW-10C	4-Nitrophenol	UG/L	25	**26**	U	UJ	NA
MW-10C	Acenaphthene	UG/L	10	10	U		NA
MW-10C	Acenaphthylene	UG/L	10	10	U		NA
MW-10C	Anthracene	UG/L	10	10	U		NA
MW-10C	Benzo(a)anthracene	UG/L	10	10	U		NA
MW-10C	Benzo(a)pyrene	UG/L	10	10	U		NA
MW-10C	Benzo(b)fluoranthene	UG/L	10	10	U		NA
MW-10C	Benzo(g,h,i)perylene	UG/L	10	10	U		NA
MW-10C	Benzo(k)fluoranthene	UG/L	10	10	U		NA
MW-10C	Bis(2-chloroethoxy)methane	UG/L	10	10	U		NA
MW-10C	bis(2-chloroethyl) ether	UG/L	10	10	U		NA
MW-10C	Bis(2-ethylhexyl)phthalate	UG/L	10	2	JB	JB	0.01
MW-10C	Butylbenzylphthalate	UG/L	10	10	U		NA
MW-10C	Carbazole	UG/L	10	10	U		NA
MW-10C	Chrysene	UG/L	10	10	U		NA
MW-10C	Di-n-butylphthalate	UG/L	10	10	U		NA
MW-10C	Di-n-octylphthalate	UG/L	10	10	U		NA
MW-10C	Dibenzo(a,h)anthracene	UG/L	10	10	U		NA
MW-10C	Dibenzofuran	UG/L	10	10	U		NA
MW-10C	Diethylphthalate	UG/L	10	10	U		NA
MW-10C	Dimethylphthalate	UG/L	10	10	U		NA

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Comparison of Results to Baseline Highest Detections
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American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-10C	Fluoranthene	UG/L	10	10	U		NA
MW-10C	Fluorene	UG/L	10	10	U		NA
MW-10C	Hexachlorobenzene	UG/L	10	10	U		NA
MW-10C	Hexachlorobutadiene	UG/L	10	10	U		NA
MW-10C	Hexachlorocyclopentadiene	UG/L	10	10	U		NA
MW-10C	Hexachloroethane	UG/L	10	10	U		NA
MW-10C	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U		NA
MW-10C	Isophorone	UG/L	10	10	U		NA
MW-10C	N-Nitroso-di-n-propylamine	UG/L	10	10	U		NA
MW-10C	N-Nitrosodiphenylamine	UG/L	10	10	U		NA
MW-10C	Naphthalene	UG/L	10	10	U		NA
MW-10C	Nitrobenzene	UG/L	10	10	U	UJ	NA
MW-10C	Pentachlorophenol	UG/L	25	**26**	U	UJ	NA
MW-10C	Phenanthrene	UG/L	10	10	U		NA
MW-10C	Phenol	UG/L	20	10	U		NA
MW-10C	Pyrene	UG/L	10	10	U		NA
MW-13	1,2,4-Trichlorobenzene	UG/L	10	10	U		NA
MW-13	1,2-Dichlorobenzene	UG/L	10	10	U		NA
MW-13	1,3-Dichlorobenzene	UG/L	10	10	U		NA
MW-13	1,4-Dichlorobenzene	UG/L	10	10	U		NA
MW-13	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U		NA
MW-13	2,4,5-Trichlorophenol	UG/L	25	25	U		NA
MW-13	2,4,6-Trichlorophenol	UG/L	10	10	U		NA
MW-13	2,4-Dichlorophenol	UG/L	10	10	U		NA
MW-13	2,4-Dimethylphenol	UG/L	10	10	U		NA
MW-13	2,4-Dinitrophenol	UG/L	25	25	U		NA
MW-13	2,4-Dinitrotoluene	UG/L	10	10	U		NA
MW-13	2,6-Dinitrotoluene	UG/L	10	10	U		NA
MW-13	2-Chloronaphthalene	UG/L	10	10	U		NA
MW-13	2-Chlorophenol	UG/L	10	10	U		NA
MW-13	2-Methylnaphthalene	UG/L	10	10	U		NA
MW-13	2-Methylphenol	UG/L	10	10	U		NA
MW-13	2-Nitroaniline	UG/L	25	25	U		NA
MW-13	2-Nitrophenol	UG/L	10	10	U		NA
MW-13	3,3'-Dichlorobenzidine	UG/L	10	10	U		NA
MW-13	3-Nitroaniline	UG/L	25	25	U		NA
MW-13	4,6-Dinitro-2-methylphenol	UG/L	25	25	U		NA
MW-13	4-Bromophenyl-phenylether	UG/L	10	10	U		NA
MW-13	4-Chloro-3-methylphenol	UG/L	10	10	U		NA
MW-13	4-Chloroaniline	UG/L	10	10	U		NA
MW-13	4-Chlorophenyl-phenyl ether	UG/L	10	10	U		NA
MW-13	4-Methylphenol	UG/L	10	10	U		NA
MW-13	4-Nitroaniline	UG/L	25	25	U		NA
MW-13	4-Nitrophenol	UG/L	25	25	U		NA
MW-13	Acenaphthene	UG/L	10	10	U		NA
MW-13	Acenaphthylene	UG/L	10	10	U		NA

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Comparison of Results to Baseline Highest Detections
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American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-13	Anthracene	UG/L	10	10	U		NA
MW-13	Benzo(a)anthracene	UG/L	10	10	U		NA
MW-13	Benzo(a)pyrene	UG/L	10	10	U		NA
MW-13	Benzo(b)fluoranthene	UG/L	10	10	U		NA
MW-13	Benzo(g,h,i)perylene	UG/L	10	10	U		NA
MW-13	Benzo(k)fluoranthene	UG/L	10	10	U		NA
MW-13	Bis(2-chloroethoxy)methane	UG/L	10	10	U		NA
MW-13	bis(2-chloroethyl) ether	UG/L	10	10	U		NA
MW-13	Bis(2-ethylhexyl)phthalate	UG/L	17	1	J		0.01
MW-13	Butylbenzylphthalate	UG/L	10	10	U		NA
MW-13	Carbazole	UG/L	10	10	U		NA
MW-13	Chrysene	UG/L	10	10	U		NA
MW-13	Di-n-butylphthalate	UG/L	10	10	U		NA
MW-13	Di-n-octylphthalate	UG/L	10	10	U		NA
MW-13	Dibenzo(a,h)anthracene	UG/L	10	10	U		NA
MW-13	Dibenzofuran	UG/L	10	10	U		NA
MW-13	Diethylphthalate	UG/L	10	10	U		NA
MW-13	Dimethylphthalate	UG/L	10	10	U		NA
MW-13	Fluoranthene	UG/L	10	10	U		NA
MW-13	Fluorene	UG/L	10	10	U		NA
MW-13	Hexachlorobenzene	UG/L	10	10	U		NA
MW-13	Hexachlorobutadiene	UG/L	10	10	U		NA
MW-13	Hexachlorocyclopentadiene	UG/L	10	10	U		NA
MW-13	Hexachloroethane	UG/L	10	10	U		NA
MW-13	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U		NA
MW-13	Isophorone	UG/L	10	10	U		NA
MW-13	N-Nitroso-di-n-propylamine	UG/L	10	10	U		NA
MW-13	N-Nitrosodiphenylamine	UG/L	10	10	U		NA
MW-13	Naphthalene	UG/L	10	10	U		NA
MW-13	Nitrobenzene	UG/L	10	10	U		NA
MW-13	Pentachlorophenol	UG/L	25	25	U		NA
MW-13	Phenanthrene	UG/L	10	10	U		NA
MW-13	Phenol	UG/L	23	10	U		NA
MW-13	Pyrene	UG/L	10	10	U		NA
MW-14	1,2,4-Trichlorobenzene	UG/L	10	10	U		NA
MW-14	1,2-Dichlorobenzene	UG/L	10	10	U		NA
MW-14	1,3-Dichlorobenzene	UG/L	10	10	U		NA
MW-14	1,4-Dichlorobenzene	UG/L	10	10	U		NA
MW-14	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U	UJ	NA
MW-14	2,4,5-Trichlorophenol	UG/L	25	**26**	U		NA
MW-14	2,4,6-Trichlorophenol	UG/L	10	10	U		NA
MW-14	2,4-Dichlorophenol	UG/L	10	10	U		NA
MW-14	2,4-Dimethylphenol	UG/L	10	10	U		NA
MW-14	2,4-Dinitrophenol	UG/L	25	**26**	U	UJ	NA
MW-14	2,4-Dinitrotoluene	UG/L	10	10	U		NA
MW-14	2,6-Dinitrotoluene	UG/L	10	10	U		NA

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Comparison of Results to Baseline Highest Detections
June 1999
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Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-14	2-Chloronaphthalene	UG/L	10	10	U		NA
MW-14	2-Chlorophenol	UG/L	10	10	U		NA
MW-14	2-Methylnaphthalene	UG/L	10	10	U		NA
MW-14	2-Methylphenol	UG/L	10	10	U		NA
MW-14	2-Nitroaniline	UG/L	25	**26**	U		NA
MW-14	2-Nitrophenol	UG/L	10	10	U		NA
MW-14	3,3'-Dichlorobenzidine	UG/L	10	10	U	UJ	NA
MW-14	3-Nitroaniline	UG/L	25	**26**	U		NA
MW-14	4,6-Dinitro-2-methylphenol	UG/L	25	**26**	U		NA
MW-14	4-Bromophenyl-phenylether	UG/L	10	10	U		NA
MW-14	4-Chloro-3-methylphenol	UG/L	10	10	U		NA
MW-14	4-Chloroaniline	UG/L	10	10	U		NA
MW-14	4-Chlorophenyl-phenyl ether	UG/L	10	10	U		NA
MW-14	4-Methylphenol	UG/L	10	10	U		NA
MW-14	4-Nitroaniline	UG/L	25	**26**	U		NA
MW-14	4-Nitrophenol	UG/L	25	**26**	U	UJ	NA
MW-14	Acenaphthene	UG/L	10	10	U		NA
MW-14	Acenaphthylene	UG/L	10	10	U		NA
MW-14	Anthracene	UG/L	10	10	U		NA
MW-14	Benzo(a)anthracene	UG/L	10	10	U		NA
MW-14	Benzo(a)pyrene	UG/L	10	10	U		NA
MW-14	Benzo(b)fluoranthene	UG/L	10	10	U		NA
MW-14	Benzo(g,h,i)perylene	UG/L	10	10	U		NA
MW-14	Benzo(k)fluoranthene	UG/L	10	10	U		NA
MW-14	Bis(2-chloroethoxy)methane	UG/L	10	10	U		NA
MW-14	bis(2-chloroethyl) ether	UG/L	12	10	U		NA
MW-14	Bis(2-ethylhexyl)phthalate	UG/L	11	10	U		NA
MW-14	Butylbenzylphthalate	UG/L	10	10	U		NA
MW-14	Carbazole	UG/L	10	10	U		NA
MW-14	Chrysene	UG/L	10	10	U		NA
MW-14	Di-n-butylphthalate	UG/L	10	10	U		NA
MW-14	Di-n-octylphthalate	UG/L	10	10	U		NA
MW-14	Dibenzo(a,h)anthracene	UG/L	10	10	U		NA
MW-14	Dibenzofuran	UG/L	10	10	U		NA
MW-14	Diethylphthalate	UG/L	10	10	U		NA
MW-14	Dimethylphthalate	UG/L	10	10	U		NA
MW-14	Fluoranthene	UG/L	10	10	U		NA
MW-14	Fluorene	UG/L	10	10	U		NA
MW-14	Hexachlorobenzene	UG/L	10	10	U		NA
MW-14	Hexachlorobutadiene	UG/L	10	10	U		NA
MW-14	Hexachlorocyclopentadiene	UG/L	10	10	U		NA
MW-14	Hexachloroethane	UG/L	10	10	U		NA
MW-14	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U		NA
MW-14	Isophorone	UG/L	10	10	U		NA
MW-14	N-Nitroso-di-n-propylamine	UG/L	10	10	U		NA
MW-14	N-Nitrosodiphenylamine	UG/L	10	10	U		NA

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June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-14	Naphthalene	UG/L	10	10	U		NA
MW-14	Nitrobenzene	UG/L	10	10	U	UJ	NA
MW-14	Pentachlorophenol	UG/L	25	**26**	U	UJ	NA
MW-14	Phenanthrene	UG/L	10	10	U		NA
MW-14	Phenol	UG/L	18	10	U		NA
MW-14	Pyrene	UG/L	10	10	U		NA
MW-15	1,2,4-Trichlorobenzene	UG/L	10	10	U		NA
MW-15	1,2-Dichlorobenzene	UG/L	10	10	U		NA
MW-15	1,3-Dichlorobenzene	UG/L	10	10	U		NA
MW-15	1,4-Dichlorobenzene	UG/L	10	10	U		NA
MW-15	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U		NA
MW-15	2,4,5-Trichlorophenol	UG/L	25	**26**	U		NA
MW-15	2,4,6-Trichlorophenol	UG/L	10	10	U		NA
MW-15	2,4-Dichlorophenol	UG/L	10	10	U		NA
MW-15	2,4-Dimethylphenol	UG/L	10	10	U		NA
MW-15	2,4-Dinitrophenol	UG/L	25	**26**	U		NA
MW-15	2,4-Dinitrotoluene	UG/L	10	10	U		NA
MW-15	2,6-Dinitrotoluene	UG/L	10	10	U		NA
MW-15	2-Chloronaphthalene	UG/L	10	10	U		NA
MW-15	2-Chlorophenol	UG/L	10	10	U		NA
MW-15	2-Methylnaphthalene	UG/L	10	10	U	UJ	NA
MW-15	2-Methylphenol	UG/L	10	10	U		NA
MW-15	2-Nitroaniline	UG/L	25	**26**	U	1	NA
MW-15	2-Nitrophenol	UG/L	10	10	U		NA
MW-15	3,3'-Dichlorobenzidine	UG/L	10	10	U		NA
MW-15	3-Nitroaniline	UG/L	25	**26**	U		NA
MW-15	4,6-Dinitro-2-methylphenol	UG/L	25	**26**	U		NA
MW-15	4-Bromophenyl-phenylether	UG/L	10	10	U		NA
MW-15	4-Chloro-3-methylphenol	UG/L	10	10	U		NA
MW-15	4-Chloroaniline	UG/L	10	10	U		NA
MW-15	4-Chlorophenyl-phenyl ether	UG/L	10	10	U		NA
MW-15	4-Methylphenol	UG/L	10	10	U		NA
MW-15	4-Nitroaniline	UG/L	25	**26**	U	UJ	NA
MW-15	4-Nitrophenol	UG/L	25	**26**	U		NA
MW-15	Acenaphthene	UG/L	10	10	U		NA
MW-15	Acenaphthylene	UG/L	10	10	U		NA
MW-15	Anthracene	UG/L	10	10	U		NA
MW-15	Benzo(a)anthracene	UG/L	10	10	U		NA
MW-15	Benzo(a)pyrene	UG/L	10	10	U		NA
MW-15	Benzo(b)fluoranthene	UG/L	10	10	U		NA
MW-15	Benzo(g,h,i)perylene	UG/L	10	10	U		NA
MW-15	Benzo(k)fluoranthene	UG/L	10	10	U		NA
MW-15	Bis(2-chloroethoxy)methane	UG/L	10	10	U		NA
MW-15	bis(2-chloroethyl) ether	UG/L	10	10	U		NA
MW-15	Bis(2-ethylhexyl)phthalate	UG/L	27	10	U		NA
MW-15	Butylbenzylphthalate	UG/L	10	10	U		NA

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Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-15	Carbazole	UG/L	10	10	U	UJ	NA
MW-15	Chrysene	UG/L	10	10	U		NA
MW-15	Di-n-butylphthalate	UG/L	10	10	U		NA
MW-15	Di-n-octylphthalate	UG/L	10	10	U		NA
MW-15	Dibenzo(a,h)anthracene	UG/L	10	10	U		NA
MW-15	Dibenzofuran	UG/L	10	10	U		NA
MW-15	Diethylphthalate	UG/L	10	10	U		NA
MW-15	Dimethylphthalate	UG/L	10	10	U		NA
MW-15	Fluoranthene	UG/L	10	10	U	UJ	NA
MW-15	Fluorene	UG/L	10	10	U		NA
MW-15	Hexachlorobenzene	UG/L	10	10	U		NA
MW-15	Hexachlorobutadiene	UG/L	10	10	U		NA
MW-15	Hexachlorocyclopentadiene	UG/L	10	10	U		NA
MW-15	Hexachloroethane	UG/L	10	10	U		NA
MW-15	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U		NA
MW-15	Isophorone	UG/L	10	10	U		NA
MW-15	N-Nitroso-di-n-propylamine	UG/L	10	10	U		NA
MW-15	N-Nitrosodiphenylamine	UG/L	10	10	U		NA
MW-15	Naphthalene	UG/L	10	10	U		NA
MW-15	Nitrobenzene	UG/L	10	10	U		NA
MW-15	Pentachlorophenol	UG/L	25	**26**	U		NA
MW-15	Phenanthrene	UG/L	10	10	U		NA
MW-15	Phenol	UG/L	26	10	U		NA
MW-15	Pyrene	UG/L	10	10	U		NA
MW-18	1,2,4-Trichlorobenzene	UG/L	10	10	U		NA
MW-18	1,2-Dichlorobenzene	UG/L	10	10	U		NA
MW-18	1,3-Dichlorobenzene	UG/L	10	10	U		NA
MW-18	1,4-Dichlorobenzene	UG/L	10	10	U		NA
MW-18	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U		NA
MW-18	2,4,5-Trichlorophenol	UG/L	25	25	U		NA
MW-18	2,4,6-Trichlorophenol	UG/L	10	10	U		NA
MW-18	2,4-Dichlorophenol	UG/L	10	10	U		NA
MW-18	2,4-Dimethylphenol	UG/L	10	10	U		NA
MW-18	2,4-Dinitrophenol	UG/L	25	25	U		NA
MW-18	2,4-Dinitrotoluene	UG/L	10	10	U		NA
MW-18	2,6-Dinitrotoluene	UG/L	10	10	U		NA
MW-18	2-Chloronaphthalene	UG/L	10	10	U		NA
MW-18	2-Chlorophenol	UG/L	10	10	U		NA
MW-18	2-Methylnaphthalene	UG/L	10	10	U		NA
MW-18	2-Methylphenol	UG/L	10	10	U		NA
MW-18	2-Nitroaniline	UG/L	25	25	U		NA
MW-18	2-Nitrophenol	UG/L	10	10	U		NA
MW-18	3,3'-Dichlorobenzidine	UG/L	10	10	U		NA
MW-18	3-Nitroaniline	UG/L	25	25	U		NA
MW-18	4,6-Dinitro-2-methylphenol	UG/L	25	25	U		NA
MW-18	4-Bromophenyl-phenylether	UG/L	10	10	U		NA

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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-18	4-Chloro-3-methylphenol	UG/L	10	10	U		NA
MW-18	4-Chloroaniline	UG/L	10	10	U		NA
MW-18	4-Chlorophenyl-phenyl ether	UG/L	10	10	U		NA
MW-18	4-Methylphenol	UG/L	10	10	U		NA
MW-18	4-Nitroaniline	UG/L	25	25	U		NA
MW-18	4-Nitrophenol	UG/L	25	25	U		NA
MW-18	Acenaphthene	UG/L	10	10	U		NA
MW-18	Acenaphthylene	UG/L	10	10	U		NA
MW-18	Anthracene	UG/L	10	10	U		NA
MW-18	Benzo(a)anthracene	UG/L	10	10	U		NA
MW-18	Benzo(a)pyrene	UG/L	10	10	U	UJ	NA
MW-18	Benzo(b)fluoranthene	UG/L	10	10	U	UJ	NA
MW-18	Benzo(g,h,i)perylene	UG/L	10	10	U	UJ	NA
MW-18	Benzo(k)fluoranthene	UG/L	10	10	U	UJ	NA
MW-18	Bis(2-chloroethoxy)methane	UG/L	10	10	U		NA
MW-18	bis(2-chloroethyl) ether	UG/L	10	10	U		NA
MW-18	Bis(2-ethylhexyl)phthalate	UG/L	15	10	U		NA
MW-18	Butylbenzylphthalate	UG/L	10	10	U		NA
MW-18	Carbazole	UG/L	10	10	U		NA
MW-18	Chrysene	UG/L	10	10	U		NA
MW-18	Di-n-butylphthalate	UG/L	10	10	U		NA
MW-18	Di-n-octylphthalate	UG/L	10	10	U		NA
MW-18	Dibenzo(a,h)anthracene	UG/L	10	10	U	UJ	NA
MW-18	Dibenzofuran	UG/L	10	10	U		NA
MW-18	Diethylphthalate	UG/L	10	10	U		NA
MW-18	Dimethylphthalate	UG/L	10	10	U		NA
MW-18	Fluoranthene	UG/L	10	10	U		NA
MW-18	Fluorene	UG/L	10	10	U		NA
MW-18	Hexachlorobenzene	UG/L	10	10	U		NA
MW-18	Hexachlorobutadiene	UG/L	10	10	U		NA
MW-18	Hexachlorocyclopentadiene	UG/L	10	10	U		NA
MW-18	Hexachloroethane	UG/L	10	10	U		NA
MW-18	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U		NA
MW-18	Isophorone	UG/L	10	10	U		NA
MW-18	N-Nitroso-di-n-propylamine	UG/L	10	10	U		NA
MW-18	N-Nitrosodiphenylamine	UG/L	10	10	U		NA
MW-18	Naphthalene	UG/L	10	10	U		NA
MW-18	Nitrobenzene	UG/L	10	10	U		NA
MW-18	Pentachlorophenol	UG/L	25	25	U		NA
MW-18	Phenanthrene	UG/L	10	10	U		NA
MW-18	Phenol	UG/L	21	10	U		NA
MW-18	Pyrene	UG/L	10	10	U		NA
MW-19	1,2,4-Trichlorobenzene	UG/L	10	10	U	UJ	NA
MW-19	1,2-Dichlorobenzene	UG/L	10	10	U	UJ	NA
MW-19	1,3-Dichlorobenzene	UG/L	10	10	U	UJ	NA
MW-19	1,4-Dichlorobenzene	UG/L	10	10	U	UJ	NA

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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-19	2,2'-oxybis(1-Chloropropane)	UG/L	10	4	J	J	0.01
MW-19	2,4,5-Trichlorophenol	UG/L	25	25	U	UJ	NA
MW-19	2,4,6-Trichlorophenol	UG/L	10	10	U	UJ	NA
MW-19	2,4-Dichlorophenol	UG/L	10	10	U	UJ	NA
MW-19	2,4-Dimethylphenol	UG/L	10	10	U	UJ	NA
MW-19	2,4-Dinitrophenol	UG/L	25	25	U	UJ	NA
MW-19	2,4-Dinitrotoluene	UG/L	10	10	U	UJ	NA
MW-19	2,6-Dinitrotoluene	UG/L	10	10	U	UJ	NA
MW-19	2-Chloronaphthalene	UG/L	10	10	U	UJ	NA
MW-19	2-Chlorophenol	UG/L	10	10	U	UJ	NA
MW-19	2-Methylnaphthalene	UG/L	10	10	U	UJ	NA
MW-19	2-Methylphenol	UG/L	10	10	U	UJ	NA
MW-19	2-Nitroaniline	UG/L	25	25	U	UJ	NA
MW-19	2-Nitrophenol	UG/L	10	10	U	UJ	NA
MW-19	3,3'-Dichlorobenzidine	UG/L	10	10	U	UJ	NA
MW-19	3-Nitroaniline	UG/L	25	25	U	UJ	NA
MW-19	4,6-Dinitro-2-methylphenol	UG/L	25	25	U	UJ	NA
MW-19	4-Bromophenyl-phenylether	UG/L	10	10	U	UJ	NA
MW-19	4-Chloro-3-methylphenol	UG/L	10	10	U	UJ	NA
MW-19	4-Chloroaniline	UG/L	10	10	U	UJ	NA
MW-19	4-Chlorophenyl-phenyl ether	UG/L	10	10	U	UJ	NA
MW-19	4-Methylphenol	UG/L	10	10	U	UJ	NA
MW-19	4-Nitroaniline	UG/L	25	25	U	UJ	NA
MW-19	4-Nitrophenol	UG/L	25	25	U	UJ	NA
MW-19	Acenaphthene	UG/L	10	10	U	UJ	NA
MW-19	Acenaphthylene	UG/L	10	10	U	UJ	NA
MW-19	Anthracene	UG/L	10	10	U	UJ	NA
MW-19	Benzo(a)anthracene	UG/L	10	10	U	UJ	NA
MW-19	Benzo(a)pyrene	UG/L	10	10	U	UJ	NA
MW-19	Benzo(b)fluoranthene	UG/L	10	10	U	UJ	NA
MW-19	Benzo(g,h,i)perylene	UG/L	10	10	U	UJ	NA
MW-19	Benzo(k)fluoranthene	UG/L	10	10	U	UJ	NA
MW-19	Bis(2-chloroethoxy)methane	UG/L	10	10	U	UJ	NA
MW-19	bis(2-chloroethyl) ether	UG/L	12	**23**		J	0.01
MW-19	Bis(2-ethylhexyl)phthalate	UG/L	14	1	J	J	0.01
MW-19	Butylbenzylphthalate	UG/L	10	10	U	UJ	NA
MW-19	Carbazole	UG/L	10	10	U	UJ	NA
MW-19	Chrysene	UG/L	10	10	U	UJ	NA
MW-19	Di-n-butylphthalate	UG/L	10	10	U	UJ	NA
MW-19	Di-n-octylphthalate	UG/L	10	10	U	UJ	NA
MW-19	Dibenzo(a,h)anthracene	UG/L	10	10	U	UJ	NA
MW-19	Dibenzofuran	UG/L	10	10	U	UJ	NA
MW-19	Diethylphthalate	UG/L	10	10	U	UJ	NA
MW-19	Dimethylphthalate	UG/L	10	10	U	UJ	NA
MW-19	Fluoranthene	UG/L	10	10	U	UJ	NA
MW-19	Fluorene	UG/L	10	10	U	UJ	NA

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Comparison of Results to Baseline Highest Detections
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American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-19	Hexachlorobenzene	UG/L	10	10	U	UJ	NA
MW-19	Hexachlorobutadiene	UG/L	10	10	U	UJ	NA
MW-19	Hexachlorocyclopentadiene	UG/L	10	10	U	UJ	NA
MW-19	Hexachloroethane	UG/L	10	10	U	UJ	NA
MW-19	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U	UJ	NA
MW-19	Isophorone	UG/L	10	10	U	UJ	NA
MW-19	N-Nitroso-di-n-propylamine	UG/L	10	10	U	UJ	NA
MW-19	N-Nitrosodiphenylamine	UG/L	10	10	U	UJ	NA
MW-19	Naphthalene	UG/L	10	10	U	UJ	NA
MW-19	Nitrobenzene	UG/L	10	10	U	UJ	NA
MW-19	Pentachlorophenol	UG/L	25	25	U	UJ	NA
MW-19	Phenanthrene	UG/L	10	10	U	UJ	NA
MW-19	Phenol	UG/L	31	10	U	UJ	NA
MW-19	Pyrene	UG/L	10	10	U	UJ	NA
MW-23	1,2,4-Trichlorobenzene	UG/L	10	10	U		NA
MW-23	1,2-Dichlorobenzene	UG/L	10	10	U		NA
MW-23	1,3-Dichlorobenzene	UG/L	10	10	U		NA
MW-23	1,4-Dichlorobenzene	UG/L	10	10	U		NA
MW-23	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U		NA
MW-23	2,4,5-Trichlorophenol	UG/L	25	25	U		NA
MW-23	2,4,6-Trichlorophenol	UG/L	10	10	U		NA
MW-23	2,4-Dichlorophenol	UG/L	10	10	U		NA
MW-23	2,4-Dimethylphenol	UG/L	10	10	U		NA
MW-23	2,4-Dinitrophenol	UG/L	25	25	U		NA
MW-23	2,4-Dinitrotoluene	UG/L	10	10	U		NA
MW-23	2,6-Dinitrotoluene	UG/L	10	10	U		NA
MW-23	2-Chloronaphthalene	UG/L	10	10	U		NA
MW-23	2-Chlorophenol	UG/L	10	10	U		NA
MW-23	2-Methylnaphthalene	UG/L	10	10	U		NA
MW-23	2-Methylphenol	UG/L	10	10	U		NA
MW-23	2-Nitroaniline	UG/L	25	25	U		NA
MW-23	2-Nitrophenol	UG/L	10	10	U		NA
MW-23	3,3'-Dichlorobenzidine	UG/L	10	10	U		NA
MW-23	3-Nitroaniline	UG/L	25	25	U		NA
MW-23	4,6-Dinitro-2-methylphenol	UG/L	25	25	U		NA
MW-23	4-Bromophenyl-phenylether	UG/L	10	10	U		NA
MW-23	4-Chloro-3-methylphenol	UG/L	10	10	U		NA
MW-23	4-Chloroaniline	UG/L	10	10	U		NA
MW-23	4-Chlorophenyl-phenyl ether	UG/L	10	10	U		NA
MW-23	4-Methylphenol	UG/L	10	10	U		NA
MW-23	4-Nitroaniline	UG/L	25	25	U		NA
MW-23	4-Nitrophenol	UG/L	25	25	U		NA
MW-23	Acenaphthene	UG/L	10	10	U		NA
MW-23	Acenaphthylene	UG/L	10	10	U		NA
MW-23	Anthracene	UG/L	10	10	U		NA
MW-23	Benzo(a)anthracene	UG/L	10	10	U		NA

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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-23	Benzo(a)pyrene	UG/L	10	10	U		NA
MW-23	Benzo(b)fluoranthene	UG/L	10	10	U		NA
MW-23	Benzo(g,h,i)perylene	UG/L	10	10	U		NA
MW-23	Benzo(k)fluoranthene	UG/L	10	10	U		NA
MW-23	Bis(2-chloroethoxy)methane	UG/L	10	10	U		NA
MW-23	bis(2-chloroethyl) ether	UG/L	10	10	U		NA
MW-23	Bis(2-ethylhexyl)phthalate	UG/L	10	10	U		NA
MW-23	Butylbenzylphthalate	UG/L	10	10	U		NA
MW-23	Carbazole	UG/L	10	10	U		NA
MW-23	Chrysene	UG/L	10	10	U		NA
MW-23	Di-n-butylphthalate	UG/L	10	10	U		NA
MW-23	Di-n-octylphthalate	UG/L	10	10	U		NA
MW-23	Dibenzo(a,h)anthracene	UG/L	10	10	U		NA
MW-23	Dibenzofuran	UG/L	10	10	U		NA
MW-23	Diethylphthalate	UG/L	10	10	U		NA
MW-23	Dimethylphthalate	UG/L	10	10	U		NA
MW-23	Fluoranthene	UG/L	10	10	U		NA
MW-23	Fluorene	UG/L	10	10	U		NA
MW-23	Hexachlorobenzene	UG/L	10	10	U		NA
MW-23	Hexachlorobutadiene	UG/L	10	10	U		NA
MW-23	Hexachlorocyclopentadiene	UG/L	10	10	U		NA
MW-23	Hexachloroethane	UG/L	10	10	U		NA
MW-23	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U		NA
MW-23	Isophorone	UG/L	10	10	U		NA
MW-23	N-Nitroso-di-n-propylamine	UG/L	10	10	U		NA
MW-23	N-Nitrosodiphenylamine	UG/L	10	10	U		NA
MW-23	Naphthalene	UG/L	10	10	U		NA
MW-23	Nitrobenzene	UG/L	10	10	U		NA
MW-23	Pentachlorophenol	UG/L	25	25	U	UJ	NA
MW-23	Phenanthrene	UG/L	10	10	U		NA
MW-23	Phenol	UG/L	30	10	U		NA
MW-23	Pyrene	UG/L	10	10	U		NA
MW-24	1,2,4-Trichlorobenzene	UG/L	10	10	U		NA
MW-24	1,2-Dichlorobenzene	UG/L	10	10	U		NA
MW-24	1,3-Dichlorobenzene	UG/L	10	10	U		NA
MW-24	1,4-Dichlorobenzene	UG/L	10	10	U		NA
MW-24	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U		NA
MW-24	2,4,5-Trichlorophenol	UG/L	25	25	U		NA
MW-24	2,4,6-Trichlorophenol	UG/L	10	10	U		NA
MW-24	2,4-Dichlorophenol	UG/L	10	10	U		NA
MW-24	2,4-Dimethylphenol	UG/L	10	10	U		NA
MW-24	2,4-Dinitrophenol	UG/L	25	25	U		NA
MW-24	2,4-Dinitrotoluene	UG/L	10	10	U		NA
MW-24	2,6-Dinitrotoluene	UG/L	10	10	U		NA
MW-24	2-Chloronaphthalene	UG/L	10	10	U		NA
MW-24	2-Chlorophenol	UG/L	10	10	U		NA

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Comparison of Results to Baseline Highest Detections
June 1999
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Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-24	2-Methylnaphthalene	UG/L	10	10	U		NA
MW-24	2-Methylphenol	UG/L	10	10	U		NA
MW-24	2-Nitroaniline	UG/L	25	25	U		NA
MW-24	2-Nitrophenol	UG/L	10	10	U		NA
MW-24	3,3'-Dichlorobenzidine	UG/L	10	10	U		NA
MW-24	3-Nitroaniline	UG/L	25	25	U		NA
MW-24	4,6-Dinitro-2-methylphenol	UG/L	25	25	U		NA
MW-24	4-Bromophenyl-phenylether	UG/L	10	10	U		NA
MW-24	4-Chloro-3-methylphenol	UG/L	10	10	U		NA
MW-24	4-Chloroaniline	UG/L	10	10	U		NA
MW-24	4-Chlorophenyl-phenyl ether	UG/L	10	10	U		NA
MW-24	4-Methylphenol	UG/L	10	10	U		NA
MW-24	4-Nitroaniline	UG/L	25	25	U		NA
MW-24	4-Nitrophenol	UG/L	25	25	U		NA
MW-24	Acenaphthene	UG/L	10	10	U		NA
MW-24	Acenaphthylene	UG/L	10	10	U		NA
MW-24	Anthracene	UG/L	10	10	U		NA
MW-24	Benzo(a)anthracene	UG/L	10	10	U		NA
MW-24	Benzo(a)pyrene	UG/L	10	10	U		NA
MW-24	Benzo(b)fluoranthene	UG/L	10	10	U		NA
MW-24	Benzo(g,h,i)perylene	UG/L	10	10	U		NA
MW-24	Benzo(k)fluoranthene	UG/L	10	10	U		NA
MW-24	Bis(2-chloroethoxy)methane	UG/L	10	10	U		NA
MW-24	bis(2-chloroethyl) ether	UG/L	10	10	U		NA
MW-24	Bis(2-ethylhexyl)phthalate	UG/L	10	10	U		NA
MW-24	Butylbenzylphthalate	UG/L	10	10	U		NA
MW-24	Carbazole	UG/L	10	10	U		NA
MW-24	Chrysene	UG/L	10	10	U		NA
MW-24	Di-n-butylphthalate	UG/L	10	10	U		NA
MW-24	Di-n-octylphthalate	UG/L	10	10	U		NA
MW-24	Dibenzo(a,h)anthracene	UG/L	10	10	U		NA
MW-24	Dibenzofuran	UG/L	10	10	U		NA
MW-24	Diethylphthalate	UG/L	10	10	U		NA
MW-24	Dimethylphthalate	UG/L	10	10	U		NA
MW-24	Fluoranthene	UG/L	10	10	U		NA
MW-24	Fluorene	UG/L	10	10	U		NA
MW-24	Hexachlorobenzene	UG/L	10	10	U		NA
MW-24	Hexachlorobutadiene	UG/L	10	10	U		NA
MW-24	Hexachlorocyclopentadiene	UG/L	10	10	U		NA
MW-24	Hexachloroethane	UG/L	10	10	U		NA
MW-24	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U		NA
MW-24	Isophorone	UG/L	10	10	U		NA
MW-24	N-Nitroso-di-n-propylamine	UG/L	10	10	U		NA
MW-24	N-Nitrosodiphenylamine	UG/L	10	10	U		NA
MW-24	Naphthalene	UG/L	10	10	U		NA
MW-24	Nitrobenzene	UG/L	10	10	U		NA

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Comparison of Results to Baseline Highest Detections
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Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-24	Pentachlorophenol	UG/L	25	25	U	UJ	NA
MW-24	Phenanthrene	UG/L	10	10	U		NA
MW-24	Phenol	UG/L	16	10	U		NA
MW-24	Pyrene	UG/L	10	10	U		NA
MW-28	1,2,4-Trichlorobenzene	UG/L	10	10	U		NA
MW-28	1,2-Dichlorobenzene	UG/L	10	10	U		NA
MW-28	1,3-Dichlorobenzene	UG/L	10	10	U		NA
MW-28	1,4-Dichlorobenzene	UG/L	10	10	U		NA
MW-28	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U		NA
MW-28	2,4,5-Trichlorophenol	UG/L	25	25	U		NA
MW-28	2,4,6-Trichlorophenol	UG/L	10	10	U		NA
MW-28	2,4-Dichlorophenol	UG/L	10	10	U		NA
MW-28	2,4-Dimethylphenol	UG/L	10	10	U		NA
MW-28	2,4-Dinitrophenol	UG/L	25	25	U		NA
MW-28	2,4-Dinitrotoluene	UG/L	10	10	U		NA
MW-28	2,6-Dinitrotoluene	UG/L	10	10	U		NA
MW-28	2-Chloronaphthalene	UG/L	10	10	U		NA
MW-28	2-Chlorophenol	UG/L	10	10	U		NA
MW-28	2-Methylnaphthalene	UG/L	10	10	U		NA
MW-28	2-Methylphenol	UG/L	10	10	U		NA
MW-28	2-Nitroaniline	UG/L	25	25	U		NA
MW-28	2-Nitrophenol	UG/L	10	10	U		NA
MW-28	3,3'-Dichlorobenzidine	UG/L	10	10	U		NA
MW-28	3-Nitroaniline	UG/L	25	25	U		NA
MW-28	4,6-Dinitro-2-methylphenol	UG/L	25	25	U		NA
MW-28	4-Bromophenyl-phenylether	UG/L	10	10	U		NA
MW-28	4-Chloro-3-methylphenol	UG/L	10	10	U		NA
MW-28	4-Chloroaniline	UG/L	10	10	U		NA
MW-28	4-Chlorophenyl-phenyl ether	UG/L	10	10	U		NA
MW-28	4-Methylphenol	UG/L	10	10	U		NA
MW-28	4-Nitroaniline	UG/L	25	25	U		NA
MW-28	4-Nitrophenol	UG/L	25	25	U		NA
MW-28	Acenaphthene	UG/L	10	10	U		NA
MW-28	Acenaphthylene	UG/L	10	10	U		NA
MW-28	Anthracene	UG/L	10	10	U		NA
MW-28	Benzo(a)anthracene	UG/L	10	10	U		NA
MW-28	Benzo(a)pyrene	UG/L	10	10	U		NA
MW-28	Benzo(b)fluoranthene	UG/L	10	10	U		NA
MW-28	Benzo(g,h,i)perylene	UG/L	10	10	U		NA
MW-28	Benzo(k)fluoranthene	UG/L	10	10	U		NA
MW-28	Bis(2-chloroethoxy)methane	UG/L	10	10	U		NA
MW-28	bis(2-chloroethyl) ether	UG/L	10	10	U		NA
MW-28	Bis(2-ethylhexyl)phthalate	UG/L	19	2	J	J	0.01
MW-28	Butylbenzylphthalate	UG/L	10	10	U		NA
MW-28	Carbazole	UG/L	10	10	U		NA
MW-28	Chrysene	UG/L	10	10	U		NA

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CAS/cas
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1252042.221601

Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-28	Di-n-butylphthalate	UG/L	10	10	U		NA
MW-28	Di-n-octylphthalate	UG/L	10	10	U		NA
MW-28	Dibenzo(a,h)anthracene	UG/L	10	10	U		NA
MW-28	Dibenzofuran	UG/L	10	10	U		NA
MW-28	Diethylphthalate	UG/L	10	10	U		NA
MW-28	Dimethylphthalate	UG/L	10	10	U		NA
MW-28	Fluoranthene	UG/L	10	10	U		NA
MW-28	Fluorene	UG/L	10	10	U		NA
MW-28	Hexachlorobenzene	UG/L	10	10	U		NA
MW-28	Hexachlorobutadiene	UG/L	10	10	U		NA
MW-28	Hexachlorocyclopentadiene	UG/L	10	10	U		NA
MW-28	Hexachloroethane	UG/L	10	10	U		NA
MW-28	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U		NA
MW-28	Isophorone	UG/L	10	10	U		NA
MW-28	N-Nitroso-di-n-propylamine	UG/L	10	10	U		NA
MW-28	N-Nitrosodiphenylamine	UG/L	10	10	U		NA
MW-28	Naphthalene	UG/L	10	10	U		NA
MW-28	Nitrobenzene	UG/L	10	10	U		NA
MW-28	Pentachlorophenol	UG/L	25	25	U		NA
MW-28	Phenanthrene	UG/L	10	10	U		NA
MW-28	Phenol	UG/L	75	10	U		NA
MW-28	Pyrene	UG/L	10	10	U		NA
MW-29	1,2,4-Trichlorobenzene	UG/L	10	10	U		NA
MW-29	1,2-Dichlorobenzene	UG/L	10	10	U		NA
MW-29	1,3-Dichlorobenzene	UG/L	10	10	U		NA
MW-29	1,4-Dichlorobenzene	UG/L	10	10	U		NA
MW-29	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U		NA
MW-29	2,4,5-Trichlorophenol	UG/L	25	25	U		NA
MW-29	2,4,6-Trichlorophenol	UG/L	10	10	U		NA
MW-29	2,4-Dichlorophenol	UG/L	10	10	U		NA
MW-29	2,4-Dimethylphenol	UG/L	10	10	U		NA
MW-29	2,4-Dinitrophenol	UG/L	25	25	U		NA
MW-29	2,4-Dinitrotoluene	UG/L	10	10	U		NA
MW-29	2,6-Dinitrotoluene	UG/L	10	10	U		NA
MW-29	2-Chloronaphthalene	UG/L	10	10	U		NA
MW-29	2-Chlorophenol	UG/L	10	10	U		NA
MW-29	2-Methylnaphthalene	UG/L	10	10	U		NA
MW-29	2-Methylphenol	UG/L	10	10	U		NA
MW-29	2-Nitroaniline	UG/L	25	25	U		NA
MW-29	2-Nitrophenol	UG/L	10	10	U		NA
MW-29	3,3'-Dichlorobenzidine	UG/L	10	10	U		NA
MW-29	3-Nitroaniline	UG/L	25	25	U		NA
MW-29	4,6-Dinitro-2-methylphenol	UG/L	25	25	U		NA
MW-29	4-Bromophenyl-phenylether	UG/L	10	10	U		NA
MW-29	4-Chloro-3-methylphenol	UG/L	10	10	U		NA
MW-29	4-Chloroaniline	UG/L	10	10	U		NA

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Comparison of Results to Baseline Highest Detections
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Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-29	4-Chlorophenyl-phenyl ether	UG/L	10	10	U		NA
MW-29	4-Methylphenol	UG/L	10	10	U		NA
MW-29	4-Nitroaniline	UG/L	25	25	U		NA
MW-29	4-Nitrophenol	UG/L	25	25	U		NA
MW-29	Acenaphthene	UG/L	10	10	U		NA
MW-29	Acenaphthylene	UG/L	10	10	U		NA
MW-29	Anthracene	UG/L	10	10	U		NA
MW-29	Benzo(a)anthracene	UG/L	10	10	U		NA
MW-29	Benzo(a)pyrene	UG/L	10	10	U		NA
MW-29	Benzo(b)fluoranthene	UG/L	10	10	U		NA
MW-29	Benzo(g,h,i)perylene	UG/L	10	10	U		NA
MW-29	Benzo(k)fluoranthene	UG/L	10	10	U		NA
MW-29	Bis(2-chloroethoxy)methane	UG/L	10	10	U		NA
MW-29	bis(2-chloroethyl) ether	UG/L	10	10	U		NA
MW-29	Bis(2-ethylhexyl)phthalate	UG/L	27	1	JB	JB	0.01
MW-29	Butylbenzylphthalate	UG/L	10	10	U		NA
MW-29	Carbazole	UG/L	10	10	U		NA
MW-29	Chrysene	UG/L	10	10	U		NA
MW-29	Di-n-butylphthalate	UG/L	10	10	U		NA
MW-29	Di-n-octylphthalate	UG/L	10	10	U		NA
MW-29	Dibenzo(a,h)anthracene	UG/L	10	10	U		NA
MW-29	Dibenzofuran	UG/L	10	10	U		NA
MW-29	Diethylphthalate	UG/L	10	10	U		NA
MW-29	Dimethylphthalate	UG/L	10	10	U		NA
MW-29	Fluoranthene	UG/L	10	10	U		NA
MW-29	Fluorene	UG/L	10	10	U		NA
MW-29	Hexachlorobenzene	UG/L	10	10	U		NA
MW-29	Hexachlorobutadiene	UG/L	10	10	U		NA
MW-29	Hexachlorocyclopentadiene	UG/L	10	10	U		NA
MW-29	Hexachloroethane	UG/L	10	10	U		NA
MW-29	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U		NA
MW-29	Isophorone	UG/L	10	10	U		NA
MW-29	N-Nitroso-di-n-propylamine	UG/L	10	10	U		NA
MW-29	N-Nitrosodiphenylamine	UG/L	10	10	U		NA
MW-29	Naphthalene	UG/L	10	10	U		NA
MW-29	Nitrobenzene	UG/L	10	10	U		NA
MW-29	Pentachlorophenol	UG/L	25	25	U	UJ	NA
MW-29	Phenanthrene	UG/L	10	10	U		NA
MW-29	Phenol	UG/L	43	10	U		NA
MW-29	Pyrene	UG/L	10	10	U		NA
MW-30	1,2,4-Trichlorobenzene	UG/L	10	10	U		NA
MW-30	1,2-Dichlorobenzene	UG/L	10	10	U		NA
MW-30	1,3-Dichlorobenzene	UG/L	10	10	U		NA
MW-30	1,4-Dichlorobenzene	UG/L	10	10	U		NA
MW-30	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U		NA
MW-30	2,4,5-Trichlorophenol	UG/L	25	25	U		NA

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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-30	2,4,6-Trichlorophenol	UG/L	10	10	U		NA
MW-30	2,4-Dichlorophenol	UG/L	10	10	U		NA
MW-30	2,4-Dimethylphenol	UG/L	10	10	U		NA
MW-30	2,4-Dinitrophenol	UG/L	25	25	U		NA
MW-30	2,4-Dinitrotoluene	UG/L	10	10	U		NA
MW-30	2,6-Dinitrotoluene	UG/L	10	10	U		NA
MW-30	2-Chloronaphthalene	UG/L	10	10	U		NA
MW-30	2-Chlorophenol	UG/L	10	10	U		NA
MW-30	2-Methylnaphthalene	UG/L	10	10	U		NA
MW-30	2-Methylphenol	UG/L	10	10	U		NA
MW-30	2-Nitroaniline	UG/L	25	25	U		NA
MW-30	2-Nitrophenol	UG/L	10	10	U		NA
MW-30	3,3'-Dichlorobenzidine	UG/L	10	10	U		NA
MW-30	3-Nitroaniline	UG/L	25	25	U		NA
MW-30	4,6-Dinitro-2-methylphenol	UG/L	25	25	U		NA
MW-30	4-Bromophenyl-phenylether	UG/L	10	10	U		NA
MW-30	4-Chloro-3-methylphenol	UG/L	10	10	U		NA
MW-30	4-Chloroaniline	UG/L	10	10	U		NA
MW-30	4-Chlorophenyl-phenyl ether	UG/L	10	10	U		NA
MW-30	4-Methylphenol	UG/L	10	10	U		NA
MW-30	4-Nitroaniline	UG/L	25	25	U		NA
MW-30	4-Nitrophenol	UG/L	25	25	U		NA
MW-30	Acenaphthene	UG/L	10	10	U		NA
MW-30	Acenaphthylene	UG/L	10	10	U		NA
MW-30	Anthracene	UG/L	10	10	U		NA
MW-30	Benzo(a)anthracene	UG/L	10	10	U		NA
MW-30	Benzo(a)pyrene	UG/L	10	10	U		NA
MW-30	Benzo(b)fluoranthene	UG/L	10	10	U		NA
MW-30	Benzo(g,h,i)perylene	UG/L	10	10	U		NA
MW-30	Benzo(k)fluoranthene	UG/L	10	10	U		NA
MW-30	Bis(2-chloroethoxy)methane	UG/L	10	10	U		NA
MW-30	bis(2-chloroethyl) ether	UG/L	10	10	U		NA
MW-30	Bis(2-ethylhexyl)phthalate	UG/L	68	1	J	J	0.01
MW-30	Butylbenzylphthalate	UG/L	10	10	U		NA
MW-30	Carbazole	UG/L	10	10	U		NA
MW-30	Chrysene	UG/L	10	10	U		NA
MW-30	Di-n-butylphthalate	UG/L	10	10	U		NA
MW-30	Di-n-octylphthalate	UG/L	10	10	U		NA
MW-30	Dibenzo(a,h)anthracene	UG/L	10	10	U		NA
MW-30	Dibenzofuran	UG/L	10	10	U		NA
MW-30	Diethylphthalate	UG/L	10	10	U		NA
MW-30	Dimethylphthalate	UG/L	10	10	U		NA
MW-30	Fluoranthene	UG/L	10	10	U		NA
MW-30	Fluorene	UG/L	10	10	U		NA
MW-30	Hexachlorobenzene	UG/L	10	10	U		NA
MW-30	Hexachlorobutadiene	UG/L	10	10	U		NA

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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-30	Hexachlorocyclopentadiene	UG/L	10	10	U		NA
MW-30	Hexachloroethane	UG/L	10	10	U		NA
MW-30	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U		NA
MW-30	Isophorone	UG/L	10	10	U		NA
MW-30	N-Nitroso-di-n-propylamine	UG/L	10	10	U		NA
MW-30	N-Nitrosodiphenylamine	UG/L	10	10	U		NA
MW-30	Naphthalene	UG/L	10	10	U		NA
MW-30	Nitrobenzene	UG/L	10	10	U		NA
MW-30	Pentachlorophenol	UG/L	25	25	U		NA
MW-30	Phenanthrene	UG/L	10	10	U		NA
MW-30	Phenol	UG/L	40	10	U		NA
MW-30	Pyrene	UG/L	10	10	U		NA
MW-31	1,2,4-Trichlorobenzene	UG/L	20	10	U	UJ	NA
MW-31	1,2-Dichlorobenzene	UG/L	20	10	U	UJ	NA
MW-31	1,3-Dichlorobenzene	UG/L	20	10	U	UJ	NA
MW-31	1,4-Dichlorobenzene	UG/L	20	10	U	UJ	NA
MW-31	2,2'-oxybis(1-Chloropropane)	UG/L	20	10	U	UJ	NA
MW-31	2,4,5-Trichlorophenol	UG/L	50	26	U	UJ	NA
MW-31	2,4,6-Trichlorophenol	UG/L	20	10	U	UJ	NA
MW-31	2,4-Dichlorophenol	UG/L	20	10	U	UJ	NA
MW-31	2,4-Dimethylphenol	UG/L	20	10	U	UJ	NA
MW-31	2,4-Dinitrophenol	UG/L	50	26	U	UJ	NA
MW-31	2,4-Dinitrotoluene	UG/L	20	10	U	UJ	NA
MW-31	2,6-Dinitrotoluene	UG/L	20	10	U	UJ	NA
MW-31	2-Chloronaphthalene	UG/L	20	10	U	UJ	NA
MW-31	2-Chlorophenol	UG/L	20	10	U	UJ	NA
MW-31	2-Methylnaphthalene	UG/L	20	10	U	UJ	NA
MW-31	2-Methylphenol	UG/L	20	10	U	UJ	NA
MW-31	2-Nitroaniline	UG/L	50	26	U	UJ	NA
MW-31	2-Nitrophenol	UG/L	20	10	U	UJ	NA
MW-31	3,3'-Dichlorobenzidine	UG/L	20	10	U	UJ	NA
MW-31	3-Nitroaniline	UG/L	50	26	U	UJ	NA
MW-31	4,6-Dinitro-2-methylphenol	UG/L	50	26	U	UJ	NA
MW-31	4-Bromophenyl-phenylether	UG/L	20	10	U	UJ	NA
MW-31	4-Chloro-3-methylphenol	UG/L	20	10	U	UJ	NA
MW-31	4-Chloroaniline	UG/L	20	10	U	UJ	NA
MW-31	4-Chlorophenyl-phenyl ether	UG/L	20	10	U	UJ	NA
MW-31	4-Methylphenol	UG/L	20	10	U	UJ	NA
MW-31	4-Nitroaniline	UG/L	50	26	U	UJ	NA
MW-31	4-Nitrophenol	UG/L	50	26	U	UJ	NA
MW-31	Acenaphthene	UG/L	20	10	U	UJ	NA
MW-31	Acenaphthylene	UG/L	20	10	U	UJ	NA
MW-31	Anthracene	UG/L	20	10	U	UJ	NA
MW-31	Benzo(a)anthracene	UG/L	20	10	U	UJ	NA
MW-31	Benzo(a)pyrene	UG/L	20	10	U	UJ	NA
MW-31	Benzo(b)fluoranthene	UG/L	20	10	U	UJ	NA

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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-31	Benzo(g,h,i)perylene	UG/L	20	10	U	UJ	NA
MW-31	Benzo(k)fluoranthene	UG/L	20	10	U	UJ	NA
MW-31	Bis(2-chloroethoxy)methane	UG/L	20	10	U	UJ	NA
MW-31	bis(2-chloroethyl) ether	UG/L	20	10	U	UJ	NA
MW-31	Bis(2-ethylhexyl)phthalate	UG/L	20	2	J	J	0.01
MW-31	Butylbenzylphthalate	UG/L	20	10	U	UJ	NA
MW-31	Carbazole	UG/L	20	10	U	UJ	NA
MW-31	Chrysene	UG/L	20	10	U	UJ	NA
MW-31	Di-n-butylphthalate	UG/L	20	10	U	UJ	NA
MW-31	Di-n-octylphthalate	UG/L	20	10	U	UJ	NA
MW-31	Dibenzo(a,h)anthracene	UG/L	20	10	U	UJ	NA
MW-31	Dibenzofuran	UG/L	20	10	U	UJ	NA
MW-31	Diethylphthalate	UG/L	20	10	U	UJ	NA
MW-31	Dimethylphthalate	UG/L	20	10	U	UJ	NA
MW-31	Fluoranthene	UG/L	20	10	U	UJ	NA
MW-31	Fluorene	UG/L	20	10	U	UJ	NA
MW-31	Hexachlorobenzene	UG/L	20	10	U	UJ	NA
MW-31	Hexachlorobutadiene	UG/L	20	10	U	UJ	NA
MW-31	Hexachlorocyclopentadiene	UG/L	20	10	U	UJ	NA
MW-31	Hexachloroethane	UG/L	20	10	U	UJ	NA
MW-31	Indeno(1,2,3-cd)pyrene	UG/L	20	10	U	UJ	NA
MW-31	Isophorone	UG/L	20	10	U	UJ	NA
MW-31	N-Nitroso-di-n-propylamine	UG/L	20	10	U	UJ	NA
MW-31	N-Nitrosodiphenylamine	UG/L	20	10	U	UJ	NA
MW-31	Naphthalene	UG/L	20	10	U	UJ	NA
MW-31	Nitrobenzene	UG/L	20	10	U	UJ	NA
MW-31	Pentachlorophenol	UG/L	50	26	U	UJ	NA
MW-31	Phenanthrene	UG/L	20	10	U	UJ	NA
MW-31	Phenol	UG/L	130	10	U	UJ	NA
MW-31	Pyrene	UG/L	20	10	U	UJ	NA
MW-32	1,2,4-Trichlorobenzene	UG/L	20	10	U	UJ	NA
MW-32	1,2-Dichlorobenzene	UG/L	20	10	U	UJ	NA
MW-32	1,3-Dichlorobenzene	UG/L	20	10	U	UJ	NA
MW-32	1,4-Dichlorobenzene	UG/L	20	10	U	UJ	NA
MW-32	2,2'-oxybis(1-Chloropropane)	UG/L	20	10	U	UJ	NA
MW-32	2,4,5-Trichlorophenol	UG/L	50	26	U	UJ	NA
MW-32	2,4,6-Trichlorophenol	UG/L	20	10	U	UJ	NA
MW-32	2,4-Dichlorophenol	UG/L	20	10	U	UJ	NA
MW-32	2,4-Dimethylphenol	UG/L	20	10	U	UJ	NA
MW-32	2,4-Dinitrophenol	UG/L	50	26	U	UJ	NA
MW-32	2,4-Dinitrotoluene	UG/L	20	10	U	UJ	NA
MW-32	2,6-Dinitrotoluene	UG/L	20	10	U	UJ	NA
MW-32	2-Chloronaphthalene	UG/L	20	10	U	UJ	NA
MW-32	2-Chlorophenol	UG/L	20	10	U	UJ	NA
MW-32	2-Methylnaphthalene	UG/L	20	10	U	UJ	NA
MW-32	2-Methylphenol	UG/L	20	10	U	UJ	NA

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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-32	2-Nitroaniline	UG/L	50	26	U	UJ	NA
MW-32	2-Nitrophenol	UG/L	20	10	U	UJ	NA
MW-32	3,3'-Dichlorobenzidine	UG/L	20	10	U	UJ	NA
MW-32	3-Nitroaniline	UG/L	50	26	U	UJ	NA
MW-32	4,6-Dinitro-2-methylphenol	UG/L	50	26	U	UJ	NA
MW-32	4-Bromophenyl-phenylether	UG/L	20	10	U	UJ	NA
MW-32	4-Chloro-3-methylphenol	UG/L	20	10	U	UJ	NA
MW-32	4-Chloroaniline	UG/L	20	10	U	UJ	NA
MW-32	4-Chlorophenyl-phenyl ether	UG/L	20	10	U	UJ	NA
MW-32	4-Methylphenol	UG/L	20	10	U	UJ	NA
MW-32	4-Nitroaniline	UG/L	50	26	U	UJ	NA
MW-32	4-Nitrophenol	UG/L	50	26	U	UJ	NA
MW-32	Acenaphthene	UG/L	20	10	U	UJ	NA
MW-32	Acenaphthylene	UG/L	20	10	U	UJ	NA
MW-32	Anthracene	UG/L	20	10	U	UJ	NA
MW-32	Benzo(a)anthracene	UG/L	20	10	U	UJ	NA
MW-32	Benzo(a)pyrene	UG/L	20	10	U	UJ	NA
MW-32	Benzo(b)fluoranthene	UG/L	20	10	U	UJ	NA
MW-32	Benzo(g,h,i)perylene	UG/L	20	10	U	UJ	NA
MW-32	Benzo(k)fluoranthene	UG/L	20	10	U	UJ	NA
MW-32	Bis(2-chloroethoxy)methane	UG/L	20	10	U	UJ	NA
MW-32	bis(2-chloroethyl) ether	UG/L	20	10	U	UJ	NA
MW-32	Bis(2-ethylhexyl)phthalate	UG/L	31	2	J	J	0.01
MW-32	Butylbenzylphthalate	UG/L	20	10	U	UJ	NA
MW-32	Carbazole	UG/L	20	10	U	UJ	NA
MW-32	Chrysene	UG/L	20	10	U	UJ	NA
MW-32	Di-n-butylphthalate	UG/L	20	10	U	UJ	NA
MW-32	Di-n-octylphthalate	UG/L	20	10	U	UJ	NA
MW-32	Dibenzo(a,h)anthracene	UG/L	20	10	U	UJ	NA
MW-32	Dibenzofuran	UG/L	20	10	U	UJ	NA
MW-32	Diethylphthalate	UG/L	20	10	U	UJ	NA
MW-32	Dimethylphthalate	UG/L	20	10	U	UJ	NA
MW-32	Fluoranthene	UG/L	20	10	U	UJ	NA
MW-32	Fluorene	UG/L	20	10	U	UJ	NA
MW-32	Hexachlorobenzene	UG/L	20	10	U	UJ	NA
MW-32	Hexachlorobutadiene	UG/L	20	10	U	UJ	NA
MW-32	Hexachlorocyclopentadiene	UG/L	20	10	U	UJ	NA
MW-32	Hexachloroethane	UG/L	20	10	U	UJ	NA
MW-32	Indeno(1,2,3-cd)pyrene	UG/L	20	10	U	UJ	NA
MW-32	Isophorone	UG/L	20	10	U	UJ	NA
MW-32	N-Nitroso-di-n-propylamine	UG/L	20	10	U	UJ	NA
MW-32	N-Nitrosodiphenylamine	UG/L	20	10	U	UJ	NA
MW-32	Naphthalene	UG/L	20	10	U	UJ	NA
MW-32	Nitrobenzene	UG/L	20	10	U	UJ	NA
MW-32	Pentachlorophenol	UG/L	50	26	U	UJ	NA
MW-32	Phenanthrene	UG/L	20	10	U	UJ	NA

BOLD = Exceedance

NA = Not Applicable

CAS/cas
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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-32	Phenol	UG/L	110	10	U	UJ	NA
MW-32	Pyrene	UG/L	20	10	U	UJ	NA
MW-33	1,2,4-Trichlorobenzene	UG/L	20	10	U		NA
MW-33	1,2-Dichlorobenzene	UG/L	20	10	U		NA
MW-33	1,3-Dichlorobenzene	UG/L	20	10	U		NA
MW-33	1,4-Dichlorobenzene	UG/L	20	10	U		NA
MW-33	2,2'-oxybis(1-Chloropropane)	UG/L	20	10	U		NA
MW-33	2,4,5-Trichlorophenol	UG/L	50	25	U		NA
MW-33	2,4,6-Trichlorophenol	UG/L	20	10	U		NA
MW-33	2,4-Dichlorophenol	UG/L	20	10	U		NA
MW-33	2,4-Dimethylphenol	UG/L	20	10	U		NA
MW-33	2,4-Dinitrophenol	UG/L	50	25	U		NA
MW-33	2,4-Dinitrotoluene	UG/L	20	10	U		NA
MW-33	2,6-Dinitrotoluene	UG/L	20	10	U		NA
MW-33	2-Chloronaphthalene	UG/L	20	10	U		NA
MW-33	2-Chlorophenol	UG/L	20	10	U		NA
MW-33	2-Methylnaphthalene	UG/L	20	10	U		NA
MW-33	2-Methylphenol	UG/L	20	10	U		NA
MW-33	2-Nitroaniline	UG/L	50	25	U		NA
MW-33	2-Nitrophenol	UG/L	20	10	U		NA
MW-33	3,3'-Dichlorobenzidine	UG/L	20	10	U		NA
MW-33	3-Nitroaniline	UG/L	50	25	U		NA
MW-33	4,6-Dinitro-2-methylphenol	UG/L	50	25	U		NA
MW-33	4-Bromophenyl-phenylether	UG/L	20	10	U		NA
MW-33	4-Chloro-3-methylphenol	UG/L	20	10	U		NA
MW-33	4-Chloroaniline	UG/L	20	10	U		NA
MW-33	4-Chlorophenyl-phenyl ether	UG/L	20	10	U		NA
MW-33	4-Methylphenol	UG/L	20	10	U		NA
MW-33	4-Nitroaniline	UG/L	50	25	U		NA
MW-33	4-Nitrophenol	UG/L	50	25	U		NA
MW-33	Acenaphthene	UG/L	20	10	U		NA
MW-33	Acenaphthylene	UG/L	20	10	U		NA
MW-33	Anthracene	UG/L	20	10	U		NA
MW-33	Benzo(a)anthracene	UG/L	20	10	U		NA
MW-33	Benzo(a)pyrene	UG/L	20	10	U		NA
MW-33	Benzo(b)fluoranthene	UG/L	20	10	U		NA
MW-33	Benzo(g,h,i)perylene	UG/L	20	10	U		NA
MW-33	Benzo(k)fluoranthene	UG/L	20	10	U		NA
MW-33	Bis(2-chloroethoxy)methane	UG/L	20	10	U		NA
MW-33	bis(2-chloroethyl) ether	UG/L	20	10	U		NA
MW-33	Bis(2-ethylhexyl)phthalate	UG/L	76	1	J	J	0.01
MW-33	Butylbenzylphthalate	UG/L	20	10	U		NA
MW-33	Carbazole	UG/L	20	10	U		NA
MW-33	Chrysene	UG/L	20	10	U		NA
MW-33	Di-n-butylphthalate	UG/L	20	10	U		NA
MW-33	Di-n-octylphthalate	UG/L	20	10	U		NA

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Comparison of Results to Baseline Highest Detections
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American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-33	Dibenzo(a,h)anthracene	UG/L	20	10	U		NA
MW-33	Dibenzofuran	UG/L	20	10	U		NA
MW-33	Diethylphthalate	UG/L	20	10	U		NA
MW-33	Dimethylphthalate	UG/L	20	10	U		NA
MW-33	Fluoranthene	UG/L	20	10	U		NA
MW-33	Fluorene	UG/L	20	10	U		NA
MW-33	Hexachlorobenzene	UG/L	20	10	U		NA
MW-33	Hexachlorobutadiene	UG/L	20	10	U		NA
MW-33	Hexachlorocyclopentadiene	UG/L	20	10	U		NA
MW-33	Hexachloroethane	UG/L	20	10	U		NA
MW-33	Indeno(1,2,3-cd)pyrene	UG/L	20	10	U		NA
MW-33	Isophorone	UG/L	20	10	U		NA
MW-33	N-Nitroso-di-n-propylamine	UG/L	20	10	U		NA
MW-33	N-Nitrosodiphenylamine	UG/L	20	10	U		NA
MW-33	Naphthalene	UG/L	20	10	U		NA
MW-33	Nitrobenzene	UG/L	20	10	U		NA
MW-33	Pentachlorophenol	UG/L	50	25	U		NA
MW-33	Phenanthrene	UG/L	20	10	U		NA
MW-33	Phenol	UG/L	83	10	U		NA
MW-33	Pyrene	UG/L	20	10	U		NA
MW-37	1,2,4-Trichlorobenzene	UG/L	10	10	U		NA
MW-37	1,2-Dichlorobenzene	UG/L	10	10	U		NA
MW-37	1,3-Dichlorobenzene	UG/L	10	10	U		NA
MW-37	1,4-Dichlorobenzene	UG/L	10	10	U		NA
MW-37	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U		NA
MW-37	2,4,5-Trichlorophenol	UG/L	25	**26**	U		NA
MW-37	2,4,6-Trichlorophenol	UG/L	10	10	U		NA
MW-37	2,4-Dichlorophenol	UG/L	10	10	U		NA
MW-37	2,4-Dimethylphenol	UG/L	10	10	U		NA
MW-37	2,4-Dinitrophenol	UG/L	25	**26**	U		NA
MW-37	2,4-Dinitrotoluene	UG/L	10	10	U		NA
MW-37	2,6-Dinitrotoluene	UG/L	10	10	U		NA
MW-37	2-Chloronaphthalene	UG/L	10	10	U		NA
MW-37	2-Chlorophenol	UG/L	10	10	U		NA
MW-37	2-Methylnaphthalene	UG/L	10	10	U		NA
MW-37	2-Methylphenol	UG/L	10	10	U		NA
MW-37	2-Nitroaniline	UG/L	25	**26**	U		NA
MW-37	2-Nitrophenol	UG/L	10	10	U		NA
MW-37	3,3'-Dichlorobenzidine	UG/L	10	10	U		NA
MW-37	3-Nitroaniline	UG/L	25	**26**	U		NA
MW-37	4,6-Dinitro-2-methylphenol	UG/L	25	**26**	U		NA
MW-37	4-Bromophenyl-phenylether	UG/L	10	10	U		NA
MW-37	4-Chloro-3-methylphenol	UG/L	10	10	U		NA
MW-37	4-Chloroaniline	UG/L	10	10	U		NA
MW-37	4-Chlorophenyl-phenyl ether	UG/L	10	10	U		NA
MW-37	4-Methylphenol	UG/L	10	10	U		NA

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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-37	4-Nitroaniline	UG/L	25	**26**	U		NA
MW-37	4-Nitrophenol	UG/L	25	**26**	U		NA
MW-37	Acenaphthene	UG/L	10	10	U		NA
MW-37	Acenaphthylene	UG/L	10	10	U		NA
MW-37	Anthracene	UG/L	10	10	U		NA
MW-37	Benzo(a)anthracene	UG/L	10	10	U		NA
MW-37	Benzo(a)pyrene	UG/L	10	10	U		NA
MW-37	Benzo(b)fluoranthene	UG/L	10	10	U		NA
MW-37	Benzo(g,h,i)perylene	UG/L	10	10	U		NA
MW-37	Benzo(k)fluoranthene	UG/L	10	10	U		NA
MW-37	Bis(2-chloroethoxy)methane	UG/L	10	10	U		NA
MW-37	bis(2-chloroethyl) ether	UG/L	10	10	U		NA
MW-37	Bis(2-ethylhexyl)phthalate	UG/L	34	10	U		NA
MW-37	Butylbenzylphthalate	UG/L	10	10	U		NA
MW-37	Carbazole	UG/L	10	10	U		NA
MW-37	Chrysene	UG/L	10	10	U		NA
MW-37	Di-n-butylphthalate	UG/L	10	10	U		NA
MW-37	Di-n-octylphthalate	UG/L	10	10	U		NA
MW-37	Dibenzo(a,h)anthracene	UG/L	10	10	U		NA
MW-37	Dibenzofuran	UG/L	10	10	U		NA
MW-37	Diethylphthalate	UG/L	10	10	U		NA
MW-37	Dimethylphthalate	UG/L	10	10	U		NA
MW-37	Fluoranthene	UG/L	10	10	U		NA
MW-37	Fluorene	UG/L	10	10	U		NA
MW-37	Hexachlorobenzene	UG/L	10	10	U		NA
MW-37	Hexachlorobutadiene	UG/L	10	10	U		NA
MW-37	Hexachlorocyclopentadiene	UG/L	10	10	U		NA
MW-37	Hexachloroethane	UG/L	10	10	U		NA
MW-37	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U		NA
MW-37	Isophorone	UG/L	10	10	U		NA
MW-37	N-Nitroso-di-n-propylamine	UG/L	10	10	U		NA
MW-37	N-Nitrosodiphenylamine	UG/L	10	10	U		NA
MW-37	Naphthalene	UG/L	10	10	U		NA
MW-37	Nitrobenzene	UG/L	10	10	U		NA
MW-37	Pentachlorophenol	UG/L	25	**26**	U	UJ	NA
MW-37	Phenanthrene	UG/L	10	10	U		NA
MW-37	Phenol	UG/L	23	10	U		NA
MW-37	Pyrene	UG/L	10	10	U		NA
MW-38	1,2,4-Trichlorobenzene	UG/L	10	10	U		NA
MW-38	1,2-Dichlorobenzene	UG/L	10	10	U		NA
MW-38	1,3-Dichlorobenzene	UG/L	10	10	U		NA
MW-38	1,4-Dichlorobenzene	UG/L	10	10	U		NA
MW-38	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U		NA
MW-38	2,4,5-Trichlorophenol	UG/L	25	25	U	UJ	NA
MW-38	2,4,6-Trichlorophenol	UG/L	10	10	U	UJ	NA
MW-38	2,4-Dichlorophenol	UG/L	10	10	U		NA

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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-38	2,4-Dimethylphenol	UG/L	10	10	U		NA
MW-38	2,4-Dinitrophenol	UG/L	25	25	U	UJ	NA
MW-38	2,4-Dinitrotoluene	UG/L	10	10	U	UJ	NA
MW-38	2,6-Dinitrotoluene	UG/L	10	10	U	UJ	NA
MW-38	2-Chloronaphthalene	UG/L	10	10	U	UJ	NA
MW-38	2-Chlorophenol	UG/L	10	10	U		NA
MW-38	2-Methylnaphthalene	UG/L	10	10	U		NA
MW-38	2-Methylphenol	UG/L	10	10	U		NA
MW-38	2-Nitroaniline	UG/L	25	25	U	UJ	NA
MW-38	2-Nitrophenol	UG/L	10	10	U		NA
MW-38	3,3'-Dichlorobenzidine	UG/L	10	10	U		NA
MW-38	3-Nitroaniline	UG/L	25	25	U	UJ	NA
MW-38	4,6-Dinitro-2-methylphenol	UG/L	25	25	U		NA
MW-38	4-Bromophenyl-phenylether	UG/L	10	10	U		NA
MW-38	4-Chloro-3-methylphenol	UG/L	10	10	U		NA
MW-38	4-Chloroaniline	UG/L	10	10	U		NA
MW-38	4-Chlorophenyl-phenyl ether	UG/L	10	10	U	UJ	NA
MW-38	4-Methylphenol	UG/L	10	10	U		NA
MW-38	4-Nitroaniline	UG/L	25	25	U	UJ	NA
MW-38	4-Nitrophenol	UG/L	25	25	U	UJ	NA
MW-38	Acenaphthene	UG/L	10	10	U	UJ	NA
MW-38	Acenaphthylene	UG/L	10	10	U	UJ	NA
MW-38	Anthracene	UG/L	10	10	U		NA
MW-38	Benzo(a)anthracene	UG/L	10	10	U		NA
MW-38	Benzo(a)pyrene	UG/L	10	10	U	R	NA
MW-38	Benzo(b)fluoranthene	UG/L	10	10	U	R	NA
MW-38	Benzo(g,h,i)perylene	UG/L	10	10	U	R	NA
MW-38	Benzo(k)fluoranthene	UG/L	10	10	U	R	NA
MW-38	Bis(2-chloroethoxy)methane	UG/L	10	10	U		NA
MW-38	bis(2-chloroethyl) ether	UG/L	10	10	U		NA
MW-38	Bis(2-ethylhexyl)phthalate	UG/L	10	**11**			0.01
MW-38	Butylbenzylphthalate	UG/L	10	10	U		NA
MW-38	Carbazole	UG/L	10	10	U		NA
MW-38	Chrysene	UG/L	10	10	U		NA
MW-38	Di-n-butylphthalate	UG/L	10	10	U		NA
MW-38	Di-n-octylphthalate	UG/L	10	10	U		NA
MW-38	Dibenzo(a,h)anthracene	UG/L	10	10	U	R	NA
MW-38	Dibenzofuran	UG/L	10	10	U	UJ	NA
MW-38	Diethylphthalate	UG/L	10	10	U	UJ	NA
MW-38	Dimethylphthalate	UG/L	10	10	U		NA
MW-38	Fluoranthene	UG/L	10	10	U		NA
MW-38	Fluorene	UG/L	10	10	U	UJ	NA
MW-38	Hexachlorobenzene	UG/L	10	10	U		NA
MW-38	Hexachlorobutadiene	UG/L	10	10	U		NA
MW-38	Hexachlorocyclopentadiene	UG/L	10	10	U		NA
MW-38	Hexachloroethane	UG/L	10	10	U		NA

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Comparison of Results to Baseline Highest Detections
June 1999
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Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-38	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U		NA
MW-38	Isophorone	UG/L	10	10	U		NA
MW-38	N-Nitroso-di-n-propylamine	UG/L	10	10	U		NA
MW-38	N-Nitrosodiphenylamine	UG/L	10	10	U		NA
MW-38	Naphthalene	UG/L	10	10	U		NA
MW-38	Nitrobenzene	UG/L	10	10	U		NA
MW-38	Pentachlorophenol	UG/L	25	25	U		NA
MW-38	Phenanthrene	UG/L	10	10	U		NA
MW-38	Phenol	UG/L	13	10	U		NA
MW-38	Pyrene	UG/L	10	10	U		NA
MW-39	1,2,4-Trichlorobenzene	UG/L	10	10	U	UJ	NA
MW-39	1,2-Dichlorobenzene	UG/L	10	10	U	UJ	NA
MW-39	1,3-Dichlorobenzene	UG/L	10	10	U	UJ	NA
MW-39	1,4-Dichlorobenzene	UG/L	10	10	U	UJ	NA
MW-39	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U	UJ	NA
MW-39	2,4,5-Trichlorophenol	UG/L	25	25	U	UJ	NA
MW-39	2,4,6-Trichlorophenol	UG/L	10	10	U	UJ	NA
MW-39	2,4-Dichlorophenol	UG/L	10	10	U	UJ	NA
MW-39	2,4-Dimethylphenol	UG/L	10	10	U	UJ	NA
MW-39	2,4-Dinitrophenol	UG/L	25	25	U	UJ	NA
MW-39	2,4-Dinitrotoluene	UG/L	10	10	U	UJ	NA
MW-39	2,6-Dinitrotoluene	UG/L	10	10	U	UJ	NA
MW-39	2-Chloronaphthalene	UG/L	10	10	U	UJ	NA
MW-39	2-Chlorophenol	UG/L	10	10	U	UJ	NA
MW-39	2-Methylnaphthalene	UG/L	10	10	U	UJ	NA
MW-39	2-Methylphenol	UG/L	10	10	U	UJ	NA
MW-39	2-Nitroaniline	UG/L	25	25	U	UJ	NA
MW-39	2-Nitrophenol	UG/L	10	10	U	UJ	NA
MW-39	3,3'-Dichlorobenzidine	UG/L	10	10	U	UJ	NA
MW-39	3-Nitroaniline	UG/L	25	25	U	UJ	NA
MW-39	4,6-Dinitro-2-methylphenol	UG/L	25	25	U	UJ	NA
MW-39	4-Bromophenyl-phenylether	UG/L	10	10	U	UJ	NA
MW-39	4-Chloro-3-methylphenol	UG/L	10	10	U	UJ	NA
MW-39	4-Chloroaniline	UG/L	10	10	U	UJ	NA
MW-39	4-Chlorophenyl-phenyl ether	UG/L	10	10	U	UJ	NA
MW-39	4-Methylphenol	UG/L	10	10	U	UJ	NA
MW-39	4-Nitroaniline	UG/L	25	25	U	UJ	NA
MW-39	4-Nitrophenol	UG/L	25	25	U	UJ	NA
MW-39	Acenaphthene	UG/L	10	10	U	UJ	NA
MW-39	Acenaphthylene	UG/L	10	10	U	UJ	NA
MW-39	Anthracene	UG/L	10	10	U	UJ	NA
MW-39	Benzo(a)anthracene	UG/L	10	10	U	UJ	NA
MW-39	Benzo(a)pyrene	UG/L	10	10	U	UJ	NA
MW-39	Benzo(b)fluoranthene	UG/L	10	10	U	UJ	NA
MW-39	Benzo(g,h,i)perylene	UG/L	10	10	U	UJ	NA
MW-39	Benzo(k)fluoranthene	UG/L	10	10	U	UJ	NA

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Comparison of Results to Baseline Highest Detections
June 1999
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Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-39	Bis(2-chloroethoxy)methane	UG/L	10	10	U	UJ	NA
MW-39	bis(2-chloroethyl) ether	UG/L	10	10	U	UJ	NA
MW-39	Bis(2-ethylhexyl)phthalate	UG/L	18	10	U	UJ	NA
MW-39	Butylbenzylphthalate	UG/L	10	10	U	UJ	NA
MW-39	Carbazole	UG/L	10	10	U	UJ	NA
MW-39	Chrysene	UG/L	10	10	U	UJ	NA
MW-39	Di-n-butylphthalate	UG/L	10	10	U	UJ	NA
MW-39	Di-n-octylphthalate	UG/L	10	10	U	UJ	NA
MW-39	Dibenzo(a,h)anthracene	UG/L	10	10	U	UJ	NA
MW-39	Dibenzofuran	UG/L	10	10	U	UJ	NA
MW-39	Diethylphthalate	UG/L	10	10	U	UJ	NA
MW-39	Dimethylphthalate	UG/L	10	10	U	UJ	NA
MW-39	Fluoranthene	UG/L	10	10	U	UJ	NA
MW-39	Fluorene	UG/L	10	10	U	UJ	NA
MW-39	Hexachlorobenzene	UG/L	10	10	U	UJ	NA
MW-39	Hexachlorobutadiene	UG/L	10	10	U	UJ	NA
MW-39	Hexachlorocyclopentadiene	UG/L	10	10	U	UJ	NA
MW-39	Hexachloroethane	UG/L	10	10	U	UJ	NA
MW-39	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U	UJ	NA
MW-39	Isophorone	UG/L	10	10	U	UJ	NA
MW-39	N-Nitroso-di-n-propylamine	UG/L	10	10	U	UJ	NA
MW-39	N-Nitrosodiphenylamine	UG/L	10	10	U	UJ	NA
MW-39	Naphthalene	UG/L	10	10	U	UJ	NA
MW-39	Nitrobenzene	UG/L	10	10	U	UJ	NA
MW-39	Pentachlorophenol	UG/L	25	25	U	UJ	NA
MW-39	Phenanthrene	UG/L	10	10	U	UJ	NA
MW-39	Phenol	UG/L	33	10	U	UJ	NA
MW-39	Pyrene	UG/L	10	10	U	UJ	NA
MW-41	1,2,4-Trichlorobenzene	UG/L	10	10	U	UJ	NA
MW-41	1,2-Dichlorobenzene	UG/L	10	10	U	UJ	NA
MW-41	1,3-Dichlorobenzene	UG/L	10	10	U	UJ	NA
MW-41	1,4-Dichlorobenzene	UG/L	10	10	U	UJ	NA
MW-41	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U	UJ	NA
MW-41	2,4,5-Trichlorophenol	UG/L	25	25	U	UJ	NA
MW-41	2,4,6-Trichlorophenol	UG/L	10	10	U	UJ	NA
MW-41	2,4-Dichlorophenol	UG/L	10	10	U	UJ	NA
MW-41	2,4-Dimethylphenol	UG/L	10	10	U	UJ	NA
MW-41	2,4-Dinitrophenol	UG/L	25	25	U	UJ	NA
MW-41	2,4-Dinitrotoluene	UG/L	10	10	U	UJ	NA
MW-41	2,6-Dinitrotoluene	UG/L	10	10	U	UJ	NA
MW-41	2-Chloronaphthalene	UG/L	10	10	U	UJ	NA
MW-41	2-Chlorophenol	UG/L	10	10	U	UJ	NA
MW-41	2-Methylnaphthalene	UG/L	10	10	U	UJ	NA
MW-41	2-Methylphenol	UG/L	10	10	U	UJ	NA
MW-41	2-Nitroaniline	UG/L	25	25	U	UJ	NA
MW-41	2-Nitrophenol	UG/L	10	10	U	UJ	NA

BOLD = Exceedance
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CAS/cas
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1252042.221601

Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-41	3,3'-Dichlorobenzidine	UG/L	10	10	U	UJ	NA
MW-41	3-Nitroaniline	UG/L	25	25	U	UJ	NA
MW-41	4,6-Dinitro-2-methylphenol	UG/L	25	25	U	UJ	NA
MW-41	4-Bromophenyl-phenylether	UG/L	10	10	U	UJ	NA
MW-41	4-Chloro-3-methylphenol	UG/L	10	10	U	UJ	NA
MW-41	4-Chloroaniline	UG/L	10	10	U	UJ	NA
MW-41	4-Chlorophenyl-phenyl ether	UG/L	10	10	U	UJ	NA
MW-41	4-Methylphenol	UG/L	10	10	U	UJ	NA
MW-41	4-Nitroaniline	UG/L	25	25	U	UJ	NA
MW-41	4-Nitrophenol	UG/L	25	25	U	UJ	NA
MW-41	Acenaphthene	UG/L	10	10	U	UJ	NA
MW-41	Acenaphthylene	UG/L	10	10	U	UJ	NA
MW-41	Anthracene	UG/L	10	10	U	UJ	NA
MW-41	Benzo(a)anthracene	UG/L	10	10	U	UJ	NA
MW-41	Benzo(a)pyrene	UG/L	10	10	U	UJ	NA
MW-41	Benzo(b)fluoranthene	UG/L	10	10	U	UJ	NA
MW-41	Benzo(g,h,i)perylene	UG/L	10	10	U	UJ	NA
MW-41	Benzo(k)fluoranthene	UG/L	10	10	U	UJ	NA
MW-41	Bis(2-chloroethoxy)methane	UG/L	10	10	U	UJ	NA
MW-41	bis(2-chloroethyl) ether	UG/L	10	10	U	UJ	NA
MW-41	Bis(2-ethylhexyl)phthalate	UG/L	10	10	U	UJ	NA
MW-41	Butylbenzylphthalate	UG/L	10	10	U	UJ	NA
MW-41	Carbazole	UG/L	10	10	U	UJ	NA
MW-41	Chrysene	UG/L	10	10	U	UJ	NA
MW-41	Di-n-butylphthalate	UG/L	10	10	U	UJ	NA
MW-41	Di-n-octylphthalate	UG/L	10	10	U	UJ	NA
MW-41	Dibenzo(a,h)anthracene	UG/L	10	10	U	UJ	NA
MW-41	Dibenzofuran	UG/L	10	10	U	UJ	NA
MW-41	Diethylphthalate	UG/L	10	10	U	UJ	NA
MW-41	Dimethylphthalate	UG/L	10	10	U	UJ	NA
MW-41	Fluoranthene	UG/L	10	10	U	UJ	NA
MW-41	Fluorene	UG/L	10	10	U	UJ	NA
MW-41	Hexachlorobenzene	UG/L	10	10	U	UJ	NA
MW-41	Hexachlorobutadiene	UG/L	10	10	U	UJ	NA
MW-41	Hexachlorocyclopentadiene	UG/L	10	10	U	UJ	NA
MW-41	Hexachloroethane	UG/L	10	10	U	UJ	NA
MW-41	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U	UJ	NA
MW-41	Isophorone	UG/L	10	10	U	UJ	NA
MW-41	N-Nitroso-di-n-propylamine	UG/L	10	10	U	UJ	NA
MW-41	N-Nitrosodiphenylamine	UG/L	10	10	U	UJ	NA
MW-41	Naphthalene	UG/L	10	10	U	UJ	NA
MW-41	Nitrobenzene	UG/L	10	10	U	UJ	NA
MW-41	Pentachlorophenol	UG/L	25	25	U	UJ	NA
MW-41	Phenanthrene	UG/L	10	10	U	UJ	NA
MW-41	Phenol	UG/L	34	10	U	UJ	NA
MW-41	Pyrene	UG/L	10	10	U	UJ	NA

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1252042.221601

Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-42	1,2,4-Trichlorobenzene	UG/L	10	10	U	UJ	NA
MW-42	1,2-Dichlorobenzene	UG/L	10	10	U	UJ	NA
MW-42	1,3-Dichlorobenzene	UG/L	10	10	U	UJ	NA
MW-42	1,4-Dichlorobenzene	UG/L	10	10	U	UJ	NA
MW-42	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U	UJ	NA
MW-42	2,4,5-Trichlorophenol	UG/L	25	25	U	UJ	NA
MW-42	2,4,6-Trichlorophenol	UG/L	10	10	U	UJ	NA
MW-42	2,4-Dichlorophenol	UG/L	10	10	U	UJ	NA
MW-42	2,4-Dimethylphenol	UG/L	10	10	U	UJ	NA
MW-42	2,4-Dinitrophenol	UG/L	25	25	U	UJ	NA
MW-42	2,4-Dinitrotoluene	UG/L	10	10	U	UJ	NA
MW-42	2,6-Dinitrotoluene	UG/L	10	10	U	UJ	NA
MW-42	2-Chloronaphthalene	UG/L	10	10	U	UJ	NA
MW-42	2-Chlorophenol	UG/L	10	10	U	UJ	NA
MW-42	2-Methylnaphthalene	UG/L	10	10	U	UJ	NA
MW-42	2-Methylphenol	UG/L	10	10	U	UJ	NA
MW-42	2-Nitroaniline	UG/L	25	25	U	UJ	NA
MW-42	2-Nitrophenol	UG/L	10	10	U	UJ	NA
MW-42	3,3'-Dichlorobenzidine	UG/L	10	10	U	UJ	NA
MW-42	3-Nitroaniline	UG/L	25	25	U	UJ	NA
MW-42	4,6-Dinitro-2-methylphenol	UG/L	25	25	U	UJ	NA
MW-42	4-Bromophenyl-phenylether	UG/L	10	10	U	UJ	NA
MW-42	4-Chloro-3-methylphenol	UG/L	10	10	U	UJ	NA
MW-42	4-Chloroaniline	UG/L	10	10	U	UJ	NA
MW-42	4-Chlorophenyl-phenyl ether	UG/L	10	10	U	UJ	NA
MW-42	4-Methylphenol	UG/L	10	10	U	UJ	NA
MW-42	4-Nitroaniline	UG/L	25	25	U	UJ	NA
MW-42	4-Nitrophenol	UG/L	25	25	U	UJ	NA
MW-42	Acenaphthene	UG/L	10	10	U	UJ	NA
MW-42	Acenaphthylene	UG/L	10	10	U	UJ	NA
MW-42	Anthracene	UG/L	10	10	U	UJ	NA
MW-42	Benzo(a)anthracene	UG/L	10	10	U	UJ	NA
MW-42	Benzo(a)pyrene	UG/L	10	10	U	UJ	NA
MW-42	Benzo(b)fluoranthene	UG/L	10	10	U	UJ	NA
MW-42	Benzo(g,h,i)perylene	UG/L	10	10	U	UJ	NA
MW-42	Benzo(k)fluoranthene	UG/L	10	10	U	UJ	NA
MW-42	Bis(2-chloroethoxy)methane	UG/L	10	10	U	UJ	NA
MW-42	bis(2-chloroethyl) ether	UG/L	10	10	U	UJ	NA
MW-42	Bis(2-ethylhexyl)phthalate	UG/L	10	2	J	J	0.01
MW-42	Butylbenzylphthalate	UG/L	10	10	U	UJ	NA
MW-42	Carbazole	UG/L	10	10	U	UJ	NA
MW-42	Chrysene	UG/L	10	10	U	UJ	NA
MW-42	Di-n-butylphthalate	UG/L	10	10	U	UJ	NA
MW-42	Di-n-octylphthalate	UG/L	10	10	U	UJ	NA
MW-42	Dibenzo(a,h)anthracene	UG/L	10	10	U	UJ	NA
MW-42	Dibenzofuran	UG/L	10	10	U	UJ	NA

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1252042.221601

Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-42	Diethylphthalate	UG/L	10	10	U	UJ	NA
MW-42	Dimethylphthalate	UG/L	10	10	U	UJ	NA
MW-42	Fluoranthene	UG/L	10	10	U	UJ	NA
MW-42	Fluorene	UG/L	10	10	U	UJ	NA
MW-42	Hexachlorobenzene	UG/L	10	10	U	UJ	NA
MW-42	Hexachlorobutadiene	UG/L	10	10	U	UJ	NA
MW-42	Hexachlorocyclopentadiene	UG/L	10	10	U	UJ	NA
MW-42	Hexachloroethane	UG/L	10	10	U	UJ	NA
MW-42	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U	UJ	NA
MW-42	Isophorone	UG/L	10	10	U	UJ	NA
MW-42	N-Nitroso-di-n-propylamine	UG/L	10	10	U	UJ	NA
MW-42	N-Nitrosodiphenylamine	UG/L	10	10	U	UJ	NA
MW-42	Naphthalene	UG/L	10	10	U	UJ	NA
MW-42	Nitrobenzene	UG/L	10	10	U	UJ	NA
MW-42	Pentachlorophenol	UG/L	25	25	U	UJ	NA
MW-42	Phenanthrene	UG/L	10	10	U	UJ	NA
MW-42	Phenol	UG/L	41	10	U	UJ	NA
MW-42	Pyrene	UG/L	10	10	U	UJ	NA
MW-43	1,2,4-Trichlorobenzene	UG/L	20	10	U	UJ	NA
MW-43	1,2-Dichlorobenzene	UG/L	20	10	U	UJ	NA
MW-43	1,3-Dichlorobenzene	UG/L	20	10	U	UJ	NA
MW-43	1,4-Dichlorobenzene	UG/L	20	10	U	UJ	NA
MW-43	2,2'-oxybis(1-Chloropropane)	UG/L	20	10	U	UJ	NA
MW-43	2,4,5-Trichlorophenol	UG/L	50	25	U	UJ	NA
MW-43	2,4,6-Trichlorophenol	UG/L	20	10	U	UJ	NA
MW-43	2,4-Dichlorophenol	UG/L	20	10	U	UJ	NA
MW-43	2,4-Dimethylphenol	UG/L	20	10	U	UJ	NA
MW-43	2,4-Dinitrophenol	UG/L	50	25	U	UJ	NA
MW-43	2,4-Dinitrotoluene	UG/L	20	10	U	UJ	NA
MW-43	2,6-Dinitrotoluene	UG/L	20	10	U	UJ	NA
MW-43	2-Chloronaphthalene	UG/L	20	10	U	UJ	NA
MW-43	2-Chlorophenol	UG/L	20	10	U	UJ	NA
MW-43	2-Methylnaphthalene	UG/L	20	10	U	UJ	NA
MW-43	2-Methylphenol	UG/L	20	10	U	UJ	NA
MW-43	2-Nitroaniline	UG/L	50	25	U	UJ	NA
MW-43	2-Nitrophenol	UG/L	20	10	U	UJ	NA
MW-43	3,3'-Dichlorobenzidine	UG/L	20	10	U	UJ	NA
MW-43	3-Nitroaniline	UG/L	50	25	U	UJ	NA
MW-43	4,6-Dinitro-2-methylphenol	UG/L	50	25	U	UJ	NA
MW-43	4-Bromophenyl-phenylether	UG/L	20	10	U	UJ	NA
MW-43	4-Chloro-3-methylphenol	UG/L	20	10	U	UJ	NA
MW-43	4-Chloroaniline	UG/L	20	10	U	UJ	NA
MW-43	4-Chlorophenyl-phenyl ether	UG/L	20	10	U	UJ	NA
MW-43	4-Methylphenol	UG/L	20	10	U	UJ	NA
MW-43	4-Nitroaniline	UG/L	50	25	U	UJ	NA
MW-43	4-Nitrophenol	UG/L	50	25	U	UJ	NA

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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-43	Acenaphthene	UG/L	20	10	U	UJ	NA
MW-43	Acenaphthylene	UG/L	20	10	U	UJ	NA
MW-43	Anthracene	UG/L	20	10	U	UJ	NA
MW-43	Benzo(a)anthracene	UG/L	20	10	U	UJ	NA
MW-43	Benzo(a)pyrene	UG/L	20	10	U	UJ	NA
MW-43	Benzo(b)fluoranthene	UG/L	20	10	U	UJ	NA
MW-43	Benzo(g,h,i)perylene	UG/L	20	10	U	UJ	NA
MW-43	Benzo(k)fluoranthene	UG/L	20	10	U	UJ	NA
MW-43	Bis(2-chloroethoxy)methane	UG/L	20	10	U	UJ	NA
MW-43	bis(2-chloroethyl) ether	UG/L	20	10	U	UJ	NA
MW-43	Bis(2-ethylhexyl)phthalate	UG/L	20	10	U	UJ	NA
MW-43	Butylbenzylphthalate	UG/L	20	10	U	UJ	NA
MW-43	Carbazole	UG/L	20	10	U	UJ	NA
MW-43	Chrysene	UG/L	20	10	U	UJ	NA
MW-43	Di-n-butylphthalate	UG/L	20	10	U	UJ	NA
MW-43	Di-n-octylphthalate	UG/L	20	10	U	UJ	NA
MW-43	Dibenzo(a,h)anthracene	UG/L	20	10	U	UJ	NA
MW-43	Dibenzofuran	UG/L	20	10	U	UJ	NA
MW-43	Diethylphthalate	UG/L	20	10	U	UJ	NA
MW-43	Dimethylphthalate	UG/L	20	10	U	UJ	NA
MW-43	Fluoranthene	UG/L	20	10	U	UJ	NA
MW-43	Fluorene	UG/L	20	10	U	UJ	NA
MW-43	Hexachlorobenzene	UG/L	20	10	U	UJ	NA
MW-43	Hexachlorobutadiene	UG/L	20	10	U	UJ	NA
MW-43	Hexachlorocyclopentadiene	UG/L	20	10	U	UJ	NA
MW-43	Hexachloroethane	UG/L	20	10	U	UJ	NA
MW-43	Indeno(1,2,3-cd)pyrene	UG/L	20	10	U	UJ	NA
MW-43	Isophorone	UG/L	20	10	U	UJ	NA
MW-43	N-Nitroso-di-n-propylamine	UG/L	20	10	U	UJ	NA
MW-43	N-Nitrosodiphenylamine	UG/L	20	10	U	UJ	NA
MW-43	Naphthalene	UG/L	20	10	U	UJ	NA
MW-43	Nitrobenzene	UG/L	20	10	U	UJ	NA
MW-43	Pentachlorophenol	UG/L	50	25	U	UJ	NA
MW-43	Phenanthrene	UG/L	20	10	U	UJ	NA
MW-43	Phenol	UG/L	75	10	U	UJ	NA
MW-43	Pyrene	UG/L	20	10	U	UJ	NA
MW-44	1,2,4-Trichlorobenzene	UG/L	10	10	U	UJ	NA
MW-44	1,2-Dichlorobenzene	UG/L	10	10	U	UJ	NA
MW-44	1,3-Dichlorobenzene	UG/L	10	10	U	UJ	NA
MW-44	1,4-Dichlorobenzene	UG/L	10	10	U	UJ	NA
MW-44	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U	UJ	NA
MW-44	2,4,5-Trichlorophenol	UG/L	25	25	U	UJ	NA
MW-44	2,4,6-Trichlorophenol	UG/L	10	10	U	UJ	NA
MW-44	2,4-Dichlorophenol	UG/L	10	10	U	UJ	NA
MW-44	2,4-Dimethylphenol	UG/L	10	10	U	UJ	NA
MW-44	2,4-Dinitrophenol	UG/L	25	25	U	UJ	NA

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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-44	2,4-Dinitrotoluene	UG/L	10	10	U	UJ	NA
MW-44	2,6-Dinitrotoluene	UG/L	10	10	U	UJ	NA
MW-44	2-Chloronaphthalene	UG/L	10	10	U	UJ	NA
MW-44	2-Chlorophenol	UG/L	10	10	U	UJ	NA
MW-44	2-Methylnaphthalene	UG/L	10	10	U	UJ	NA
MW-44	2-Methylphenol	UG/L	10	10	U	UJ	NA
MW-44	2-Nitroaniline	UG/L	25	25	U	UJ	NA
MW-44	2-Nitrophenol	UG/L	10	10	U	UJ	NA
MW-44	3,3'-Dichlorobenzidine	UG/L	10	10	U	UJ	NA
MW-44	3-Nitroaniline	UG/L	25	25	U	UJ	NA
MW-44	4,6-Dinitro-2-methylphenol	UG/L	25	25	U	UJ	NA
MW-44	4-Bromophenyl-phenylether	UG/L	10	10	U	UJ	NA
MW-44	4-Chloro-3-methylphenol	UG/L	10	10	U	UJ	NA
MW-44	4-Chloroaniline	UG/L	10	10	U	UJ	NA
MW-44	4-Chlorophenyl-phenyl ether	UG/L	10	10	U	UJ	NA
MW-44	4-Methylphenol	UG/L	10	10	U	UJ	NA
MW-44	4-Nitroaniline	UG/L	25	25	U	UJ	NA
MW-44	4-Nitrophenol	UG/L	25	25	U	UJ	NA
MW-44	Acenaphthene	UG/L	10	10	U	UJ	NA
MW-44	Acenaphthylene	UG/L	10	10	U	UJ	NA
MW-44	Anthracene	UG/L	10	10	U	UJ	NA
MW-44	Benzo(a)anthracene	UG/L	10	10	U	UJ	NA
MW-44	Benzo(a)pyrene	UG/L	10	10	U	UJ	NA
MW-44	Benzo(b)fluoranthene	UG/L	10	10	U	UJ	NA
MW-44	Benzo(g,h,i)perylene	UG/L	10	10	U	UJ	NA
MW-44	Benzo(k)fluoranthene	UG/L	10	10	U	UJ	NA
MW-44	Bis(2-chloroethoxy)methane	UG/L	10	10	U	UJ	NA
MW-44	bis(2-chloroethyl) ether	UG/L	10	10	U	UJ	NA
MW-44	Bis(2-ethylhexyl)phthalate	UG/L	15	6	J	J	0.02
MW-44	Butylbenzylphthalate	UG/L	10	10	U	UJ	NA
MW-44	Carbazole	UG/L	10	10	U	UJ	NA
MW-44	Chrysene	UG/L	10	10	U	UJ	NA
MW-44	Di-n-butylphthalate	UG/L	10	10	U	UJ	NA
MW-44	Di-n-octylphthalate	UG/L	10	10	U	UJ	NA
MW-44	Dibenzo(a,h)anthracene	UG/L	10	10	U	UJ	NA
MW-44	Dibenzofuran	UG/L	10	10	U	UJ	NA
MW-44	Diethylphthalate	UG/L	10	10	U	UJ	NA
MW-44	Dimethylphthalate	UG/L	10	10	U	UJ	NA
MW-44	Fluoranthene	UG/L	10	10	U	UJ	NA
MW-44	Fluorene	UG/L	10	10	U	UJ	NA
MW-44	Hexachlorobenzene	UG/L	10	10	U	UJ	NA
MW-44	Hexachlorobutadiene	UG/L	10	10	U	UJ	NA
MW-44	Hexachlorocyclopentadiene	UG/L	10	10	U	UJ	NA
MW-44	Hexachloroethane	UG/L	10	10	U	UJ	NA
MW-44	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U	UJ	NA
MW-44	Isophorone	UG/L	10	10	U	UJ	NA

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June 1999
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Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-44	N-Nitroso-di-n-propylamine	UG/L	10	10	U	UJ	NA
MW-44	N-Nitrosodiphenylamine	UG/L	10	10	U	UJ	NA
MW-44	Naphthalene	UG/L	10	10	U	UJ	NA
MW-44	Nitrobenzene	UG/L	10	10	U	UJ	NA
MW-44	Pentachlorophenol	UG/L	25	25	U	UJ	NA
MW-44	Phenanthrene	UG/L	10	10	U	UJ	NA
MW-44	Phenol	UG/L	11	10	U	UJ	NA
MW-44	Pyrene	UG/L	10	10	U	UJ	NA
MW-45	1,2,4-Trichlorobenzene	UG/L	20	10	U	UJ	NA
MW-45	1,2-Dichlorobenzene	UG/L	20	4	J	J	0.01
MW-45	1,3-Dichlorobenzene	UG/L	20	10	U	UJ	NA
MW-45	1,4-Dichlorobenzene	UG/L	20	2	J	J	0.01
MW-45	2,2'-oxybis(1-Chloropropane)	UG/L	20	7	J	J	0.01
MW-45	2,4,5-Trichlorophenol	UG/L	50	26	U	UJ	NA
MW-45	2,4,6-Trichlorophenol	UG/L	20	10	U	UJ	NA
MW-45	2,4-Dichlorophenol	UG/L	20	10	U	UJ	NA
MW-45	2,4-Dimethylphenol	UG/L	20	10	U	UJ	NA
MW-45	2,4-Dinitrophenol	UG/L	50	26	U	UJ	NA
MW-45	2,4-Dinitrotoluene	UG/L	20	10	U	UJ	NA
MW-45	2,6-Dinitrotoluene	UG/L	20	10	U	UJ	NA
MW-45	2-Chloronaphthalene	UG/L	20	10	U	UJ	NA
MW-45	2-Chlorophenol	UG/L	20	10	U	UJ	NA
MW-45	2-Methylnaphthalene	UG/L	20	0.5	J	J	0.01
MW-45	2-Methylphenol	UG/L	20	10	U	UJ	NA
MW-45	2-Nitroaniline	UG/L	50	26	U	UJ	NA
MW-45	2-Nitrophenol	UG/L	20	10	U	UJ	NA
MW-45	3,3'-Dichlorobenzidine	UG/L	20	10	U	UJ	NA
MW-45	3-Nitroaniline	UG/L	50	26	U	UJ	NA
MW-45	4,6-Dinitro-2-methylphenol	UG/L	50	26	U	UJ	NA
MW-45	4-Bromophenyl-phenylether	UG/L	20	10	U	UJ	NA
MW-45	4-Chloro-3-methylphenol	UG/L	20	10	U	UJ	NA
MW-45	4-Chloroaniline	UG/L	20	10	U	UJ	NA
MW-45	4-Chlorophenyl-phenyl ether	UG/L	20	10	U	UJ	NA
MW-45	4-Methylphenol	UG/L	20	10	U	UJ	NA
MW-45	4-Nitroaniline	UG/L	50	26	U	UJ	NA
MW-45	4-Nitrophenol	UG/L	50	26	U	UJ	NA
MW-45	Acenaphthene	UG/L	20	10	U	UJ	NA
MW-45	Acenaphthylene	UG/L	20	10	U	UJ	NA
MW-45	Anthracene	UG/L	20	10	U	UJ	NA
MW-45	Benzo(a)anthracene	UG/L	20	10	U	UJ	NA
MW-45	Benzo(a)pyrene	UG/L	20	10	U	UJ	NA
MW-45	Benzo(b)fluoranthene	UG/L	20	10	U	UJ	NA
MW-45	Benzo(g,h,i)perylene	UG/L	20	10	U	UJ	NA
MW-45	Benzo(k)fluoranthene	UG/L	20	10	U	UJ	NA
MW-45	Bis(2-chloroethoxy)methane	UG/L	20	10	U	UJ	NA
MW-45	bis(2-chloroethyl) ether	UG/L	20	4	J	J	0.01

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CAS/cas
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1252042.221601

Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-45	Bis(2-ethylhexyl)phthalate	UG/L	20	10	U	UJ	NA
MW-45	Butylbenzylphthalate	UG/L	20	10	U	UJ	NA
MW-45	Carbazole	UG/L	20	10	U	UJ	NA
MW-45	Chrysene	UG/L	20	10	U	UJ	NA
MW-45	Di-n-butylphthalate	UG/L	20	10	U	UJ	NA
MW-45	Di-n-octylphthalate	UG/L	20	10	U	UJ	NA
MW-45	Dibenzo(a,h)anthracene	UG/L	20	10	U	UJ	NA
MW-45	Dibenzofuran	UG/L	20	10	U	UJ	NA
MW-45	Diethylphthalate	UG/L	20	10	U	UJ	NA
MW-45	Dimethylphthalate	UG/L	20	10	U	UJ	NA
MW-45	Fluoranthene	UG/L	20	10	U	UJ	NA
MW-45	Fluorene	UG/L	20	10	U	UJ	NA
MW-45	Hexachlorobenzene	UG/L	20	10	U	UJ	NA
MW-45	Hexachlorobutadiene	UG/L	20	10	U	UJ	NA
MW-45	Hexachlorocyclopentadiene	UG/L	20	10	U	UJ	NA
MW-45	Hexachloroethane	UG/L	20	10	U	UJ	NA
MW-45	Indeno(1,2,3-cd)pyrene	UG/L	20	10	U	UJ	NA
MW-45	Isophorone	UG/L	20	10	U	UJ	NA
MW-45	N-Nitroso-di-n-propylamine	UG/L	20	10	U	UJ	NA
MW-45	N-Nitrosodiphenylamine	UG/L	20	10	U	UJ	NA
MW-45	Naphthalene	UG/L	140	11		J	0.01
MW-45	Nitrobenzene	UG/L	20	10	U	UJ	NA
MW-45	Pentachlorophenol	UG/L	50	26	U	UJ	NA
MW-45	Phenanthrene	UG/L	20	10	U	UJ	NA
MW-45	Phenol	UG/L	50	31		J	0.01
MW-45	Pyrene	UG/L	20	10	U	UJ	NA
MW-46	1,2,4-Trichlorobenzene	UG/L	10	10	U		NA
MW-46	1,2-Dichlorobenzene	UG/L	10	10	U		NA
MW-46	1,3-Dichlorobenzene	UG/L	10	10	U		NA
MW-46	1,4-Dichlorobenzene	UG/L	10	10	U		NA
MW-46	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U		NA
MW-46	2,4,5-Trichlorophenol	UG/L	25	25	U		NA
MW-46	2,4,6-Trichlorophenol	UG/L	10	10	U		NA
MW-46	2,4-Dichlorophenol	UG/L	10	10	U		NA
MW-46	2,4-Dimethylphenol	UG/L	10	10	U		NA
MW-46	2,4-Dinitrophenol	UG/L	25	25	U		NA
MW-46	2,4-Dinitrotoluene	UG/L	10	10	U		NA
MW-46	2,6-Dinitrotoluene	UG/L	10	10	U		NA
MW-46	2-Chloronaphthalene	UG/L	10	10	U		NA
MW-46	2-Chlorophenol	UG/L	10	10	U		NA
MW-46	2-Methylnaphthalene	UG/L	10	10	U		NA
MW-46	2-Methylphenol	UG/L	10	10	U		NA
MW-46	2-Nitroaniline	UG/L	25	25	U		NA
MW-46	2-Nitrophenol	UG/L	10	10	U		NA
MW-46	3,3'-Dichlorobenzidine	UG/L	10	10	U		NA
MW-46	3-Nitroaniline	UG/L	25	25	U		NA

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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-46	4,6-Dinitro-2-methylphenol	UG/L	25	25	U		NA
MW-46	4-Bromophenyl-phenylether	UG/L	10	10	U		NA
MW-46	4-Chloro-3-methylphenol	UG/L	10	10	U		NA
MW-46	4-Chloroaniline	UG/L	10	10	U		NA
MW-46	4-Chlorophenyl-phenyl ether	UG/L	10	10	U		NA
MW-46	4-Methylphenol	UG/L	10	10	U		NA
MW-46	4-Nitroaniline	UG/L	25	25	U		NA
MW-46	4-Nitrophenol	UG/L	25	25	U		NA
MW-46	Acenaphthene	UG/L	10	10	U		NA
MW-46	Acenaphthylene	UG/L	10	10	U		NA
MW-46	Anthracene	UG/L	10	10	U		NA
MW-46	Benzo(a)anthracene	UG/L	10	10	U		NA
MW-46	Benzo(a)pyrene	UG/L	10	10	U		NA
MW-46	Benzo(b)fluoranthene	UG/L	10	10	U		NA
MW-46	Benzo(g,h,i)perylene	UG/L	10	10	U		NA
MW-46	Benzo(k)fluoranthene	UG/L	10	10	U		NA
MW-46	Bis(2-chloroethoxy)methane	UG/L	10	10	U		NA
MW-46	bis(2-chloroethyl) ether	UG/L	10	10	U		NA
MW-46	Bis(2-ethylhexyl)phthalate	UG/L	10	10	U		NA
MW-46	Butylbenzylphthalate	UG/L	10	10	U		NA
MW-46	Carbazole	UG/L	10	10	U		NA
MW-46	Chrysene	UG/L	10	10	U		NA
MW-46	Di-n-butylphthalate	UG/L	10	10	U		NA
MW-46	Di-n-octylphthalate	UG/L	10	10	U		NA
MW-46	Dibenzo(a,h)anthracene	UG/L	10	10	U		NA
MW-46	Dibenzofuran	UG/L	10	10	U		NA
MW-46	Diethylphthalate	UG/L	10	10	U		NA
MW-46	Dimethylphthalate	UG/L	10	10	U		NA
MW-46	Fluoranthene	UG/L	10	10	U		NA
MW-46	Fluorene	UG/L	10	10	U		NA
MW-46	Hexachlorobenzene	UG/L	10	10	U		NA
MW-46	Hexachlorobutadiene	UG/L	10	10	U		NA
MW-46	Hexachlorocyclopentadiene	UG/L	10	10	U		NA
MW-46	Hexachloroethane	UG/L	10	10	U		NA
MW-46	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U		NA
MW-46	Isophorone	UG/L	10	10	U		NA
MW-46	N-Nitroso-di-n-propylamine	UG/L	10	10	U		NA
MW-46	N-Nitrosodiphenylamine	UG/L	10	10	U		NA
MW-46	Naphthalene	UG/L	10	10	U		NA
MW-46	Nitrobenzene	UG/L	10	10	U		NA
MW-46	Pentachlorophenol	UG/L	25	25	U		NA
MW-46	Phenanthrene	UG/L	10	10	U		NA
MW-46	Phenol	UG/L	10	10	U		NA
MW-46	Pyrene	UG/L	10	10	U		NA
MW-47	1,2,4-Trichlorobenzene	UG/L	10	10	U		NA
MW-47	1,2-Dichlorobenzene	UG/L	10	10	U		NA

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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-47	1,3-Dichlorobenzene	UG/L	10	10	U		NA
MW-47	1,4-Dichlorobenzene	UG/L	10	10	U	UJ	NA
MW-47	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U		NA
MW-47	2,4,5-Trichlorophenol	UG/L	25	25	U		NA
MW-47	2,4,6-Trichlorophenol	UG/L	10	10	U		NA
MW-47	2,4-Dichlorophenol	UG/L	10	10	U		NA
MW-47	2,4-Dimethylphenol	UG/L	10	10	U		NA
MW-47	2,4-Dinitrophenol	UG/L	25	25	U		NA
MW-47	2,4-Dinitrotoluene	UG/L	10	10	U		NA
MW-47	2,6-Dinitrotoluene	UG/L	10	10	U		NA
MW-47	2-Chloronaphthalene	UG/L	10	10	U		NA
MW-47	2-Chlorophenol	UG/L	10	10	U		NA
MW-47	2-Methylnaphthalene	UG/L	10	10	U		NA
MW-47	2-Methylphenol	UG/L	10	10	U		NA
MW-47	2-Nitroaniline	UG/L	25	25	U		NA
MW-47	2-Nitrophenol	UG/L	10	10	U		NA
MW-47	3,3'-Dichlorobenzidine	UG/L	10	10	U		NA
MW-47	3-Nitroaniline	UG/L	25	25	U		NA
MW-47	4,6-Dinitro-2-methylphenol	UG/L	25	25	U		NA
MW-47	4-Bromophenyl-phenylether	UG/L	10	10	U		NA
MW-47	4-Chloro-3-methylphenol	UG/L	10	10	U	UJ	NA
MW-47	4-Chloroaniline	UG/L	10	10	U		NA
MW-47	4-Chlorophenyl-phenyl ether	UG/L	10	10	U		NA
MW-47	4-Methylphenol	UG/L	10	10	U		NA
MW-47	4-Nitroaniline	UG/L	25	25	U		NA
MW-47	4-Nitrophenol	UG/L	25	25	U	UJ	NA
MW-47	Acenaphthene	UG/L	10	10	U		NA
MW-47	Acenaphthylene	UG/L	10	10	U		NA
MW-47	Anthracene	UG/L	10	10	U		NA
MW-47	Benzo(a)anthracene	UG/L	10	10	U		NA
MW-47	Benzo(a)pyrene	UG/L	10	10	U		NA
MW-47	Benzo(b)fluoranthene	UG/L	10	10	U		NA
MW-47	Benzo(g,h,i)perylene	UG/L	10	10	U		NA
MW-47	Benzo(k)fluoranthene	UG/L	10	10	U		NA
MW-47	Bis(2-chloroethoxy)methane	UG/L	10	10	U		NA
MW-47	bis(2-chloroethyl) ether	UG/L	10	10	U		NA
MW-47	Bis(2-ethylhexyl)phthalate	UG/L	10	10	U		NA
MW-47	Butylbenzylphthalate	UG/L	10	10	U		NA
MW-47	Carbazole	UG/L	10	10	U		NA
MW-47	Chrysene	UG/L	10	10	U		NA
MW-47	Di-n-butylphthalate	UG/L	10	10	U		NA
MW-47	Di-n-octylphthalate	UG/L	10	10	U		NA
MW-47	Dibenzo(a,h)anthracene	UG/L	10	10	U		NA
MW-47	Dibenzofuran	UG/L	10	10	U		NA
MW-47	Diethylphthalate	UG/L	10	10	U		NA
MW-47	Dimethylphthalate	UG/L	10	10	U		NA

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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-47	Fluoranthene	UG/L	10	10	U		NA
MW-47	Fluorene	UG/L	10	10	U		NA
MW-47	Hexachlorobenzene	UG/L	10	10	U		NA
MW-47	Hexachlorobutadiene	UG/L	10	10	U		NA
MW-47	Hexachlorocyclopentadiene	UG/L	10	10	U		NA
MW-47	Hexachloroethane	UG/L	10	10	U		NA
MW-47	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U		NA
MW-47	Isophorone	UG/L	10	10	U		NA
MW-47	N-Nitroso-di-n-propylamine	UG/L	10	10	U		NA
MW-47	N-Nitrosodiphenylamine	UG/L	10	10	U		NA
MW-47	Naphthalene	UG/L	10	10	U		NA
MW-47	Nitrobenzene	UG/L	10	10	U		NA
MW-47	Pentachlorophenol	UG/L	25	25	U		NA
MW-47	Phenanthrene	UG/L	10	10	U		NA
MW-47	Phenol	UG/L	39	10	U		NA
MW-47	Pyrene	UG/L	10	10	U		NA
MW-48	1,2,4-Trichlorobenzene	UG/L	20	10	U		NA
MW-48	1,2-Dichlorobenzene	UG/L	20	10	U		NA
MW-48	1,3-Dichlorobenzene	UG/L	20	10	U		NA
MW-48	1,4-Dichlorobenzene	UG/L	20	10	U		NA
MW-48	2,2'-oxybis(1-Chloropropane)	UG/L	20	10	U		NA
MW-48	2,4,5-Trichlorophenol	UG/L	50	25	U		NA
MW-48	2,4,6-Trichlorophenol	UG/L	20	10	U		NA
MW-48	2,4-Dichlorophenol	UG/L	20	10	U		NA
MW-48	2,4-Dimethylphenol	UG/L	20	3	J		0.01
MW-48	2,4-Dinitrophenol	UG/L	50	25	U		NA
MW-48	2,4-Dinitrotoluene	UG/L	20	10	U		NA
MW-48	2,6-Dinitrotoluene	UG/L	20	10	U		NA
MW-48	2-Chloronaphthalene	UG/L	20	10	U		NA
MW-48	2-Chlorophenol	UG/L	20	10	U		NA
MW-48	2-Methylnaphthalene	UG/L	20	10	U		NA
MW-48	2-Methylphenol	UG/L	20	10	U		NA
MW-48	2-Nitroaniline	UG/L	50	25	U		NA
MW-48	2-Nitrophenol	UG/L	20	10	U		NA
MW-48	3,3'-Dichlorobenzidine	UG/L	20	10	U		NA
MW-48	3-Nitroaniline	UG/L	50	25	U		NA
MW-48	4,6-Dinitro-2-methylphenol	UG/L	50	25	U		NA
MW-48	4-Bromophenyl-phenylether	UG/L	20	10	U		NA
MW-48	4-Chloro-3-methylphenol	UG/L	20	10	U		NA
MW-48	4-Chloroaniline	UG/L	20	10	U		NA
MW-48	4-Chlorophenyl-phenyl ether	UG/L	20	10	U		NA
MW-48	4-Methylphenol	UG/L	20	10	U		NA
MW-48	4-Nitroaniline	UG/L	50	25	U		NA
MW-48	4-Nitrophenol	UG/L	50	25	U		NA
MW-48	Acenaphthene	UG/L	20	10	U		NA
MW-48	Acenaphthylene	UG/L	20	10	U		NA

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Comparison of Results to Baseline Highest Detections
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Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-48	Anthracene	UG/L	20	10	U		NA
MW-48	Benzo(a)anthracene	UG/L	20	10	U		NA
MW-48	Benzo(a)pyrene	UG/L	20	10	U		NA
MW-48	Benzo(b)fluoranthene	UG/L	20	10	U		NA
MW-48	Benzo(g,h,i)perylene	UG/L	20	10	U		NA
MW-48	Benzo(k)fluoranthene	UG/L	20	10	U		NA
MW-48	Bis(2-chloroethoxy)methane	UG/L	20	10	U		NA
MW-48	bis(2-chloroethyl) ether	UG/L	20	18			0.01
MW-48	Bis(2-ethylhexyl)phthalate	UG/L	20	10	U		NA
MW-48	Butylbenzylphthalate	UG/L	20	10	U		NA
MW-48	Carbazole	UG/L	20	10	U		NA
MW-48	Chrysene	UG/L	20	10	U		NA
MW-48	Di-n-butylphthalate	UG/L	20	10	U		NA
MW-48	Di-n-octylphthalate	UG/L	20	10	U		NA
MW-48	Dibenzo(a,h)anthracene	UG/L	20	10	U		NA
MW-48	Dibenzofuran	UG/L	20	10	U		NA
MW-48	Diethylphthalate	UG/L	20	10	U		NA
MW-48	Dimethylphthalate	UG/L	20	10	U		NA
MW-48	Fluoranthene	UG/L	20	10	U		NA
MW-48	Fluorene	UG/L	20	10	U		NA
MW-48	Hexachlorobenzene	UG/L	20	10	U		NA
MW-48	Hexachlorobutadiene	UG/L	20	10	U		NA
MW-48	Hexachlorocyclopentadiene	UG/L	20	10	U		NA
MW-48	Hexachloroethane	UG/L	20	10	U		NA
MW-48	Indeno(1,2,3-cd)pyrene	UG/L	20	10	U		NA
MW-48	Isophorone	UG/L	20	10	U		NA
MW-48	N-Nitroso-di-n-propylamine	UG/L	20	10	U		NA
MW-48	N-Nitrosodiphenylamine	UG/L	20	10	U		NA
MW-48	Naphthalene	UG/L	20	10	U		NA
MW-48	Nitrobenzene	UG/L	20	10	U		NA
MW-48	Pentachlorophenol	UG/L	50	25	U		NA
MW-48	Phenanthrene	UG/L	20	10	U		NA
MW-48	Phenol	UG/L	110	87	D		0.02
MW-48	Pyrene	UG/L	20	10	U		NA
MW-49	1,2,4-Trichlorobenzene	UG/L	50	10	U		NA
MW-49	1,2-Dichlorobenzene	UG/L	50	10	U		NA
MW-49	1,3-Dichlorobenzene	UG/L	50	10	U		NA
MW-49	1,4-Dichlorobenzene	UG/L	50	10	U		NA
MW-49	2,2'-oxybis(1-Chloropropane)	UG/L	28	9	J	J	0.01
MW-49	2,4,5-Trichlorophenol	UG/L	120	25	U		NA
MW-49	2,4,6-Trichlorophenol	UG/L	50	10	U		NA
MW-49	2,4-Dichlorophenol	UG/L	50	10	U		NA
MW-49	2,4-Dimethylphenol	UG/L	50	10	U		NA
MW-49	2,4-Dinitrophenol	UG/L	120	25	U	UJ	NA
MW-49	2,4-Dinitrotoluene	UG/L	50	10	U		NA
MW-49	2,6-Dinitrotoluene	UG/L	50	10	U	UJ	NA

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June 1999
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Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-49	2-Chloronaphthalene	UG/L	50	10	U		NA
MW-49	2-Chlorophenol	UG/L	50	10	U		NA
MW-49	2-Methylnaphthalene	UG/L	50	10	U		NA
MW-49	2-Methylphenol	UG/L	50	10	U		NA
MW-49	2-Nitroaniline	UG/L	120	25	U		NA
MW-49	2-Nitrophenol	UG/L	50	10	U		NA
MW-49	3,3'-Dichlorobenzidine	UG/L	50	10	U		NA
MW-49	3-Nitroaniline	UG/L	120	25	U		NA
MW-49	4,6-Dinitro-2-methylphenol	UG/L	120	25	U	UJ	NA
MW-49	4-Bromophenyl-phenylether	UG/L	50	10	U		NA
MW-49	4-Chloro-3-methylphenol	UG/L	50	10	U		NA
MW-49	4-Chloroaniline	UG/L	50	10	U		NA
MW-49	4-Chlorophenyl-phenyl ether	UG/L	50	10	U		NA
MW-49	4-Methylphenol	UG/L	50	10	U		NA
MW-49	4-Nitroaniline	UG/L	120	25	U		NA
MW-49	4-Nitrophenol	UG/L	120	25	U		NA
MW-49	Acenaphthene	UG/L	50	10	U		NA
MW-49	Acenaphthylene	UG/L	50	10	U		NA
MW-49	Anthracene	UG/L	50	10	U		NA
MW-49	Benzo(a)anthracene	UG/L	50	10	U		NA
MW-49	Benzo(a)pyrene	UG/L	50	10	U		NA
MW-49	Benzo(b)fluoranthene	UG/L	50	10	U		NA
MW-49	Benzo(g,h,i)perylene	UG/L	50	10	U		NA
MW-49	Benzo(k)fluoranthene	UG/L	50	10	U		NA
MW-49	Bis(2-chloroethoxy)methane	UG/L	50	10	U		NA
MW-49	bis(2-chloroethyl) ether	UG/L	50	10	U		NA
MW-49	Bis(2-ethylhexyl)phthalate	UG/L	50	10	U		NA
MW-49	Butylbenzylphthalate	UG/L	50	10	U		NA
MW-49	Carbazole	UG/L	50	10	U		NA
MW-49	Chrysene	UG/L	50	10	U		NA
MW-49	Di-n-butylphthalate	UG/L	50	10	U		NA
MW-49	Di-n-octylphthalate	UG/L	50	10	U		NA
MW-49	Dibenzo(a,h)anthracene	UG/L	50	10	U		NA
MW-49	Dibenzofuran	UG/L	50	10	U		NA
MW-49	Diethylphthalate	UG/L	50	10	U		NA
MW-49	Dimethylphthalate	UG/L	50	10	U		NA
MW-49	Fluoranthene	UG/L	50	10	U		NA
MW-49	Fluorene	UG/L	50	10	U		NA
MW-49	Hexachlorobenzene	UG/L	50	10	U		NA
MW-49	Hexachlorobutadiene	UG/L	50	10	U		NA
MW-49	Hexachlorocyclopentadiene	UG/L	50	10	U		NA
MW-49	Hexachloroethane	UG/L	50	10	U		NA
MW-49	Indeno(1,2,3-cd)pyrene	UG/L	50	10	U		NA
MW-49	Isophorone	UG/L	10	3	J	J	0.01
MW-49	N-Nitroso-di-n-propylamine	UG/L	50	10	U		NA
MW-49	N-Nitrosodiphenylamine	UG/L	50	10	U		NA

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1252042.221601

Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-49	Naphthalene	UG/L	50	10	U		NA
MW-49	Nitrobenzene	UG/L	50	10	U		NA
MW-49	Pentachlorophenol	UG/L	120	25	U		NA
MW-49	Phenanthrene	UG/L	50	10	U		NA
MW-49	Phenol	UG/L	125	71			0.01
MW-49	Pyrene	UG/L	50	10	U		NA
MW-50	1,2,4-Trichlorobenzene	UG/L	60	10	U	UJ	NA
MW-50	1,2-Dichlorobenzene	UG/L	60	10	U	UJ	NA
MW-50	1,3-Dichlorobenzene	UG/L	60	10	U	UJ	NA
MW-50	1,4-Dichlorobenzene	UG/L	60	10	U	UJ	NA
MW-50	2,2'-oxybis(1-Chloropropane)	UG/L	60	10	U	UJ	NA
MW-50	2,4,5-Trichlorophenol	UG/L	150	26	U	UJ	NA
MW-50	2,4,6-Trichlorophenol	UG/L	60	10	U	UJ	NA
MW-50	2,4-Dichlorophenol	UG/L	60	10	U	UJ	NA
MW-50	2,4-Dimethylphenol	UG/L	60	10	U	UJ	NA
MW-50	2,4-Dinitrophenol	UG/L	150	26	U	UJ	NA
MW-50	2,4-Dinitrotoluene	UG/L	60	10	U	UJ	NA
MW-50	2,6-Dinitrotoluene	UG/L	60	10	U	UJ	NA
MW-50	2-Chloronaphthalene	UG/L	60	10	U	UJ	NA
MW-50	2-Chlorophenol	UG/L	60	10	U	UJ	NA
MW-50	2-Methylnaphthalene	UG/L	60	10	U	UJ	NA
MW-50	2-Methylphenol	UG/L	60	10	U	UJ	NA
MW-50	2-Nitroaniline	UG/L	150	26	U	UJ	NA
MW-50	2-Nitrophenol	UG/L	60	10	U	UJ	NA
MW-50	3,3'-Dichlorobenzidine	UG/L	60	10	U	UJ	NA
MW-50	3-Nitroaniline	UG/L	150	26	U	UJ	NA
MW-50	4,6-Dinitro-2-methylphenol	UG/L	150	26	U	UJ	NA
MW-50	4-Bromophenyl-phenylether	UG/L	60	10	U	UJ	NA
MW-50	4-Chloro-3-methylphenol	UG/L	60	10	U	UJ	NA
MW-50	4-Chloroaniline	UG/L	60	10	U	UJ	NA
MW-50	4-Chlorophenyl-phenyl ether	UG/L	60	10	U	UJ	NA
MW-50	4-Methylphenol	UG/L	60	10	U	UJ	NA
MW-50	4-Nitroaniline	UG/L	150	26	U	UJ	NA
MW-50	4-Nitrophenol	UG/L	150	26	U	UJ	NA
MW-50	Acenaphthene	UG/L	60	10	U	UJ	NA
MW-50	Acenaphthylene	UG/L	60	10	U	UJ	NA
MW-50	Anthracene	UG/L	60	10	U	UJ	NA
MW-50	Benzo(a)anthracene	UG/L	60	10	U	UJ	NA
MW-50	Benzo(a)pyrene	UG/L	60	10	U	UJ	NA
MW-50	Benzo(b)fluoranthene	UG/L	60	10	U	UJ	NA
MW-50	Benzo(g,h,i)perylene	UG/L	60	10	U	UJ	NA
MW-50	Benzo(k)fluoranthene	UG/L	60	10	U	UJ	NA
MW-50	Bis(2-chloroethoxy)methane	UG/L	60	10	U	UJ	NA
MW-50	bis(2-chloroethyl) ether	UG/L	60	10	U	UJ	NA
MW-50	Bis(2-ethylhexyl)phthalate	UG/L	60	10	U	UJ	NA
MW-50	Butylbenzylphthalate	UG/L	60	10	U	UJ	NA

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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-50	Carbazole	UG/L	60	10	U	UJ	NA
MW-50	Chrysene	UG/L	60	10	U	UJ	NA
MW-50	Di-n-butylphthalate	UG/L	60	10	U	UJ	NA
MW-50	Di-n-octylphthalate	UG/L	60	10	U	UJ	NA
MW-50	Dibenzo(a,h)anthracene	UG/L	60	10	U	UJ	NA
MW-50	Dibenzofuran	UG/L	60	10	U	UJ	NA
MW-50	Diethylphthalate	UG/L	60	10	U	UJ	NA
MW-50	Dimethylphthalate	UG/L	60	10	U	UJ	NA
MW-50	Fluoranthene	UG/L	60	10	U	UJ	NA
MW-50	Fluorene	UG/L	60	10	U	UJ	NA
MW-50	Hexachlorobenzene	UG/L	60	10	U	UJ	NA
MW-50	Hexachlorobutadiene	UG/L	60	10	U	UJ	NA
MW-50	Hexachlorocyclopentadiene	UG/L	60	10	U	UJ	NA
MW-50	Hexachloroethane	UG/L	60	10	U	UJ	NA
MW-50	Indeno(1,2,3-cd)pyrene	UG/L	60	10	U	UJ	NA
MW-50	Isophorone	UG/L	60	10	U	UJ	NA
MW-50	N-Nitroso-di-n-propylamine	UG/L	60	10	U	UJ	NA
MW-50	N-Nitrosodiphenylamine	UG/L	60	10	U	UJ	NA
MW-50	Naphthalene	UG/L	60	10	U	UJ	NA
MW-50	Nitrobenzene	UG/L	60	10	U	UJ	NA
MW-50	Pentachlorophenol	UG/L	150	26	U	UJ	NA
MW-50	Phenanthrene	UG/L	60	10	U	UJ	NA
MW-50	Phenol	UG/L	340	10	U	UJ	NA
MW-50	Pyrene	UG/L	60	10	U	UJ	NA
MW-51	1,2,4-Trichlorobenzene	UG/L	10	10	U		NA
MW-51	1,2-Dichlorobenzene	UG/L	10	10	U		NA
MW-51	1,3-Dichlorobenzene	UG/L	10	10	U		NA
MW-51	1,4-Dichlorobenzene	UG/L	10	10	U		NA
MW-51	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U		NA
MW-51	2,4,5-Trichlorophenol	UG/L	25	25	U		NA
MW-51	2,4,6-Trichlorophenol	UG/L	10	10	U		NA
MW-51	2,4-Dichlorophenol	UG/L	10	10	U		NA
MW-51	2,4-Dimethylphenol	UG/L	10	10	U		NA
MW-51	2,4-Dinitrophenol	UG/L	25	25	U		NA
MW-51	2,4-Dinitrotoluene	UG/L	10	10	U		NA
MW-51	2,6-Dinitrotoluene	UG/L	10	10	U		NA
MW-51	2-Chloronaphthalene	UG/L	10	10	U		NA
MW-51	2-Chlorophenol	UG/L	10	10	U		NA
MW-51	2-Methylnaphthalene	UG/L	10	10	U		NA
MW-51	2-Methylphenol	UG/L	10	10	U		NA
MW-51	2-Nitroaniline	UG/L	25	25	U		NA
MW-51	2-Nitrophenol	UG/L	10	10	U		NA
MW-51	3,3'-Dichlorobenzidine	UG/L	10	10	U		NA
MW-51	3-Nitroaniline	UG/L	25	25	U		NA
MW-51	4,6-Dinitro-2-methylphenol	UG/L	25	25	U		NA
MW-51	4-Bromophenyl-phenylether	UG/L	10	10	U		NA

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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-51	4-Chloro-3-methylphenol	UG/L	10	10	U		NA
MW-51	4-Chloroaniline	UG/L	10	10	U		NA
MW-51	4-Chlorophenyl-phenyl ether	UG/L	10	10	U		NA
MW-51	4-Methylphenol	UG/L	10	10	U		NA
MW-51	4-Nitroaniline	UG/L	25	25	U		NA
MW-51	4-Nitrophenol	UG/L	25	25	U		NA
MW-51	Acenaphthene	UG/L	10	10	U		NA
MW-51	Acenaphthylene	UG/L	10	10	U		NA
MW-51	Anthracene	UG/L	10	10	U		NA
MW-51	Benzo(a)anthracene	UG/L	10	10	U		NA
MW-51	Benzo(a)pyrene	UG/L	10	10	U		NA
MW-51	Benzo(b)fluoranthene	UG/L	10	10	U		NA
MW-51	Benzo(g,h,i)perylene	UG/L	10	10	U		NA
MW-51	Benzo(k)fluoranthene	UG/L	10	10	U		NA
MW-51	Bis(2-chloroethoxy)methane	UG/L	10	10	U		NA
MW-51	bis(2-chloroethyl) ether	UG/L	10	10	U		NA
MW-51	Bis(2-ethylhexyl)phthalate	UG/L	10	10	U		NA
MW-51	Butylbenzylphthalate	UG/L	10	10	U		NA
MW-51	Carbazole	UG/L	10	10	U		NA
MW-51	Chrysene	UG/L	10	10	U		NA
MW-51	Di-n-butylphthalate	UG/L	10	10	U		NA
MW-51	Di-n-octylphthalate	UG/L	10	10	U		NA
MW-51	Dibenzo(a,h)anthracene	UG/L	10	10	U		NA
MW-51	Dibenzofuran	UG/L	10	10	U		NA
MW-51	Diethylphthalate	UG/L	10	10	U		NA
MW-51	Dimethylphthalate	UG/L	10	10	U		NA
MW-51	Fluoranthene	UG/L	10	10	U		NA
MW-51	Fluorene	UG/L	10	10	U		NA
MW-51	Hexachlorobenzene	UG/L	10	10	U		NA
MW-51	Hexachlorobutadiene	UG/L	10	10	U		NA
MW-51	Hexachlorocyclopentadiene	UG/L	10	10	U		NA
MW-51	Hexachloroethane	UG/L	10	10	U		NA
MW-51	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U		NA
MW-51	Isophorone	UG/L	10	10	U		NA
MW-51	N-Nitroso-di-n-propylamine	UG/L	10	10	U		NA
MW-51	N-Nitrosodiphenylamine	UG/L	10	10	U		NA
MW-51	Naphthalene	UG/L	10	10	U		NA
MW-51	Nitrobenzene	UG/L	10	10	U		NA
MW-51	Pentachlorophenol	UG/L	25	25	U		NA
MW-51	Phenanthrene	UG/L	10	10	U		NA
MW-51	Phenol	UG/L	25	10	U		NA
MW-51	Pyrene	UG/L	10	10	U		NA
MW-52	1,2,4-Trichlorobenzene	UG/L	10	10	U		NA
MW-52	1,2-Dichlorobenzene	UG/L	10	10	U		NA
MW-52	1,3-Dichlorobenzene	UG/L	10	10	U		NA
MW-52	1,4-Dichlorobenzene	UG/L	10	10	U		NA

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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-52	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U		NA
MW-52	2,4,5-Trichlorophenol	UG/L	25	25	U		NA
MW-52	2,4,6-Trichlorophenol	UG/L	10	10	U		NA
MW-52	2,4-Dichlorophenol	UG/L	10	10	U	UJ	NA
MW-52	2,4-Dimethylphenol	UG/L	10	10	U		NA
MW-52	2,4-Dinitrophenol	UG/L	25	25	U		NA
MW-52	2,4-Dinitrotoluene	UG/L	10	10	U		NA
MW-52	2,6-Dinitrotoluene	UG/L	10	10	U		NA
MW-52	2-Chloronaphthalene	UG/L	10	10	U		NA
MW-52	2-Chlorophenol	UG/L	10	10	U		NA
MW-52	2-Methylnaphthalene	UG/L	10	10	U		NA
MW-52	2-Methylphenol	UG/L	10	10	U		NA
MW-52	2-Nitroaniline	UG/L	25	25	U		NA
MW-52	2-Nitrophenol	UG/L	10	10	U		NA
MW-52	3,3'-Dichlorobenzidine	UG/L	10	10	U	UJ	NA
MW-52	3-Nitroaniline	UG/L	25	25	U		NA
MW-52	4,6-Dinitro-2-methylphenol	UG/L	25	25	U		NA
MW-52	4-Bromophenyl-phenylether	UG/L	10	10	U		NA
MW-52	4-Chloro-3-methylphenol	UG/L	10	10	U		NA
MW-52	4-Chloroaniline	UG/L	10	10	U		NA
MW-52	4-Chlorophenyl-phenyl ether	UG/L	10	10	U		NA
MW-52	4-Methylphenol	UG/L	10	10	U		NA
MW-52	4-Nitroaniline	UG/L	25	25	U		NA
MW-52	4-Nitrophenol	UG/L	25	25	U		NA
MW-52	Acenaphthene	UG/L	10	10	U		NA
MW-52	Acenaphthylene	UG/L	10	10	U		NA
MW-52	Anthracene	UG/L	10	10	U		NA
MW-52	Benzo(a)anthracene	UG/L	10	10	U		NA
MW-52	Benzo(a)pyrene	UG/L	10	10	U		NA
MW-52	Benzo(b)fluoranthene	UG/L	10	10	U		NA
MW-52	Benzo(g,h,i)perylene	UG/L	10	10	U		NA
MW-52	Benzo(k)fluoranthene	UG/L	10	10	U		NA
MW-52	Bis(2-chloroethoxy)methane	UG/L	10	10	U		NA
MW-52	bis(2-chloroethyl) ether	UG/L	10	10	U		NA
MW-52	Bis(2-ethylhexyl)phthalate	UG/L	39	6	J	J	0.01
MW-52	Butylbenzylphthalate	UG/L	10	10	U		NA
MW-52	Carbazole	UG/L	10	10	U		NA
MW-52	Chrysene	UG/L	10	10	U		NA
MW-52	Di-n-butylphthalate	UG/L	10	10	U		NA
MW-52	Di-n-octylphthalate	UG/L	10	10	U		NA
MW-52	Dibenzo(a,h)anthracene	UG/L	10	10	U		NA
MW-52	Dibenzofuran	UG/L	10	10	U		NA
MW-52	Diethylphthalate	UG/L	10	10	U		NA
MW-52	Dimethylphthalate	UG/L	10	10	U		NA
MW-52	Fluoranthene	UG/L	10	10	U		NA
MW-52	Fluorene	UG/L	10	10	U		NA

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Comparison of Results to Baseline Highest Detections
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Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-52	Hexachlorobenzene	UG/L	10	10	U		NA
MW-52	Hexachlorobutadiene	UG/L	10	10	U		NA
MW-52	Hexachlorocyclopentadiene	UG/L	10	10	U		NA
MW-52	Hexachloroethane	UG/L	10	10	U		NA
MW-52	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U		NA
MW-52	Isophorone	UG/L	10	10	U		NA
MW-52	N-Nitroso-di-n-propylamine	UG/L	10	10	U		NA
MW-52	N-Nitrosodiphenylamine	UG/L	10	10	U		NA
MW-52	Naphthalene	UG/L	10	10	U		NA
MW-52	Nitrobenzene	UG/L	10	10	U		NA
MW-52	Pentachlorophenol	UG/L	25	25	U		NA
MW-52	Phenanthrene	UG/L	10	10	U		NA
MW-52	Phenol	UG/L	33	10	U		NA
MW-52	Pyrene	UG/L	10	10	U		NA
MW-54R	1,2,4-Trichlorobenzene	UG/L	30	10	U	UJ	NA
MW-54R	1,2-Dichlorobenzene	UG/L	30	10	U	UJ	NA
MW-54R	1,3-Dichlorobenzene	UG/L	30	10	U	UJ	NA
MW-54R	1,4-Dichlorobenzene	UG/L	30	10	U	UJ	NA
MW-54R	2,2'-oxybis(1-Chloropropane)	UG/L	30	10	U	UJ	NA
MW-54R	2,4,5-Trichlorophenol	UG/L	75	25	U	UJ	NA
MW-54R	2,4,6-Trichlorophenol	UG/L	30	10	U	UJ	NA
MW-54R	2,4-Dichlorophenol	UG/L	30	10	U	UJ	NA
MW-54R	2,4-Dimethylphenol	UG/L	30	10	U	UJ	NA
MW-54R	2,4-Dinitrophenol	UG/L	75	25	U	UJ	NA
MW-54R	2,4-Dinitrotoluene	UG/L	30	10	U	UJ	NA
MW-54R	2,6-Dinitrotoluene	UG/L	30	10	U	UJ	NA
MW-54R	2-Chloronaphthalene	UG/L	30	10	U	UJ	NA
MW-54R	2-Chlorophenol	UG/L	30	10	U	UJ	NA
MW-54R	2-Methylnaphthalene	UG/L	30	10	U	UJ	NA
MW-54R	2-Methylphenol	UG/L	30	10	U	UJ	NA
MW-54R	2-Nitroaniline	UG/L	75	25	U	UJ	NA
MW-54R	2-Nitrophenol	UG/L	30	10	U	UJ	NA
MW-54R	3,3'-Dichlorobenzidine	UG/L	30	10	U	UJ	NA
MW-54R	3-Nitroaniline	UG/L	75	25	U	UJ	NA
MW-54R	4,6-Dinitro-2-methylphenol	UG/L	75	25	U	UJ	NA
MW-54R	4-Bromophenyl-phenylether	UG/L	30	10	U	UJ	NA
MW-54R	4-Chloro-3-methylphenol	UG/L	30	10	U	UJ	NA
MW-54R	4-Chloroaniline	UG/L	30	10	U	UJ	NA
MW-54R	4-Chlorophenyl-phenyl ether	UG/L	30	10	U	UJ	NA
MW-54R	4-Methylphenol	UG/L	30	10	U	UJ	NA
MW-54R	4-Nitroaniline	UG/L	75	25	U	UJ	NA
MW-54R	4-Nitrophenol	UG/L	75	25	U	UJ	NA
MW-54R	Acenaphthene	UG/L	30	10	U	UJ	NA
MW-54R	Acenaphthylene	UG/L	30	10	U	UJ	NA
MW-54R	Anthracene	UG/L	30	10	U	UJ	NA
MW-54R	Benzo(a)anthracene	UG/L	30	10	U	UJ	NA

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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-54R	Benzo(a)pyrene	UG/L	30	10	U	UJ	NA
MW-54R	Benzo(b)fluoranthene	UG/L	30	10	U	UJ	NA
MW-54R	Benzo(g,h,i)perylene	UG/L	30	10	U	UJ	NA
MW-54R	Benzo(k)fluoranthene	UG/L	30	10	U	UJ	NA
MW-54R	Bis(2-chloroethoxy)methane	UG/L	30	10	U	UJ	NA
MW-54R	bis(2-chloroethyl) ether	UG/L	30	10	U	UJ	NA
MW-54R	Bis(2-ethylhexyl)phthalate	UG/L	39	10	U	UJ	NA
MW-54R	Butylbenzylphthalate	UG/L	30	10	U	UJ	NA
MW-54R	Carbazole	UG/L	30	10	U	UJ	NA
MW-54R	Chrysene	UG/L	30	10	U	UJ	NA
MW-54R	Di-n-butylphthalate	UG/L	30	10	U	UJ	NA
MW-54R	Di-n-octylphthalate	UG/L	30	10	U	UJ	NA
MW-54R	Dibenzo(a,h)anthracene	UG/L	30	10	U	UJ	NA
MW-54R	Dibenzofuran	UG/L	30	10	U	UJ	NA
MW-54R	Diethylphthalate	UG/L	30	10	U	UJ	NA
MW-54R	Dimethylphthalate	UG/L	30	10	U	UJ	NA
MW-54R	Fluoranthene	UG/L	30	10	U	UJ	NA
MW-54R	Fluorene	UG/L	30	10	U	UJ	NA
MW-54R	Hexachlorobenzene	UG/L	30	10	U	UJ	NA
MW-54R	Hexachlorobutadiene	UG/L	30	10	U	UJ	NA
MW-54R	Hexachlorocyclopentadiene	UG/L	30	10	U	UJ	NA
MW-54R	Hexachloroethane	UG/L	30	10	U	UJ	NA
MW-54R	Indeno(1,2,3-cd)pyrene	UG/L	30	10	U	UJ	NA
MW-54R	Isophorone	UG/L	30	10	U	UJ	NA
MW-54R	N-Nitroso-di-n-propylamine	UG/L	30	10	U	UJ	NA
MW-54R	N-Nitrosodiphenylamine	UG/L	30	10	U	UJ	NA
MW-54R	Naphthalene	UG/L	30	10	U	UJ	NA
MW-54R	Nitrobenzene	UG/L	30	10	U	UJ	NA
MW-54R	Pentachlorophenol	UG/L	75	25	U	UJ	NA
MW-54R	Phenanthrene	UG/L	30	10	U	UJ	NA
MW-54R	Phenol	UG/L	160	10	U	UJ	NA
MW-54R	Pyrene	UG/L	30	10	U	UJ	NA
MW-55	1,2,4-Trichlorobenzene	UG/L	10	10	U	UJ	NA
MW-55	1,2-Dichlorobenzene	UG/L	10	10	U	UJ	NA
MW-55	1,3-Dichlorobenzene	UG/L	10	10	U	UJ	NA
MW-55	1,4-Dichlorobenzene	UG/L	10	10	U	UJ	NA
MW-55	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U	UJ	NA
MW-55	2,4,5-Trichlorophenol	UG/L	25	25	U	UJ	NA
MW-55	2,4,6-Trichlorophenol	UG/L	10	10	U	UJ	NA
MW-55	2,4-Dichlorophenol	UG/L	10	10	U	UJ	NA
MW-55	2,4-Dimethylphenol	UG/L	10	10	U	UJ	NA
MW-55	2,4-Dinitrophenol	UG/L	25	25	U	UJ	NA
MW-55	2,4-Dinitrotoluene	UG/L	10	10	U	UJ	NA
MW-55	2,6-Dinitrotoluene	UG/L	10	10	U	UJ	NA
MW-55	2-Chloronaphthalene	UG/L	10	10	U	UJ	NA
MW-55	2-Chlorophenol	UG/L	10	10	U	UJ	NA

BOLD = Exceedance
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1252042.221601

Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-55	2-Methylnaphthalene	UG/L	10	10	U	UJ	NA
MW-55	2-Methylphenol	UG/L	10	10	U	UJ	NA
MW-55	2-Nitroaniline	UG/L	25	25	U	UJ	NA
MW-55	2-Nitrophenol	UG/L	10	10	U	UJ	NA
MW-55	3,3'-Dichlorobenzidine	UG/L	10	10	U	UJ	NA
MW-55	3-Nitroaniline	UG/L	25	25	U	UJ	NA
MW-55	4,6-Dinitro-2-methylphenol	UG/L	25	25	U	UJ	NA
MW-55	4-Bromophenyl-phenylether	UG/L	10	10	U	UJ	NA
MW-55	4-Chloro-3-methylphenol	UG/L	10	10	U	UJ	NA
MW-55	4-Chloroaniline	UG/L	10	10	U	UJ	NA
MW-55	4-Chlorophenyl-phenyl ether	UG/L	10	10	U	UJ	NA
MW-55	4-Methylphenol	UG/L	10	10	U	UJ	NA
MW-55	4-Nitroaniline	UG/L	25	25	U	UJ	NA
MW-55	4-Nitrophenol	UG/L	25	25	U	UJ	NA
MW-55	Acenaphthene	UG/L	10	10	U	UJ	NA
MW-55	Acenaphthylene	UG/L	10	10	U	UJ	NA
MW-55	Anthracene	UG/L	10	10	U	UJ	NA
MW-55	Benzo(a)anthracene	UG/L	10	10	U	UJ	NA
MW-55	Benzo(a)pyrene	UG/L	10	10	U	UJ	NA
MW-55	Benzo(b)fluoranthene	UG/L	10	10	U	UJ	NA
MW-55	Benzo(g,h,i)perylene	UG/L	10	10	U	UJ	NA
MW-55	Benzo(k)fluoranthene	UG/L	10	10	U	UJ	NA
MW-55	Bis(2-chloroethoxy)methane	UG/L	10	10	U	UJ	NA
MW-55	bis(2-chloroethyl) ether	UG/L	10	10	U	UJ	NA
MW-55	Bis(2-ethylhexyl)phthalate	UG/L	40	2	J	J	0.01
MW-55	Butylbenzylphthalate	UG/L	10	10	U	UJ	NA
MW-55	Carbazole	UG/L	10	10	U	UJ	NA
MW-55	Chrysene	UG/L	10	10	U	UJ	NA
MW-55	Di-n-butylphthalate	UG/L	10	10	U	UJ	NA
MW-55	Di-n-octylphthalate	UG/L	10	10	U	UJ	NA
MW-55	Dibenzo(a,h)anthracene	UG/L	10	10	U	UJ	NA
MW-55	Dibenzofuran	UG/L	10	10	U	UJ	NA
MW-55	Diethylphthalate	UG/L	10	10	U	UJ	NA
MW-55	Dimethylphthalate	UG/L	10	10	U	UJ	NA
MW-55	Fluoranthene	UG/L	10	10	U	UJ	NA
MW-55	Fluorene	UG/L	10	10	U	UJ	NA
MW-55	Hexachlorobenzene	UG/L	10	10	U	UJ	NA
MW-55	Hexachlorobutadiene	UG/L	10	10	U	UJ	NA
MW-55	Hexachlorocyclopentadiene	UG/L	10	10	U	UJ	NA
MW-55	Hexachloroethane	UG/L	10	10	U	UJ	NA
MW-55	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U	UJ	NA
MW-55	Isophorone	UG/L	10	10	U	UJ	NA
MW-55	N-Nitroso-di-n-propylamine	UG/L	10	10	U	UJ	NA
MW-55	N-Nitrosodiphenylamine	UG/L	10	10	U	UJ	NA
MW-55	Naphthalene	UG/L	10	10	U	UJ	NA
MW-55	Nitrobenzene	UG/L	10	10	U	UJ	NA

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Comparison of Results to Baseline Highest Detections
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American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-55	Pentachlorophenol	UG/L	25	25	U	UJ	NA
MW-55	Phenanthrene	UG/L	10	10	U	UJ	NA
MW-55	Phenol	UG/L	39	10	U	UJ	NA
MW-55	Pyrene	UG/L	10	10	U	UJ	NA
WM-53	1,2,4-Trichlorobenzene	UG/L		10	U		NA
WM-53	1,2-Dichlorobenzene	UG/L		10	U		NA
WM-53	1,3-Dichlorobenzene	UG/L		10	U		NA
WM-53	1,4-Dichlorobenzene	UG/L		10	U		NA
WM-53	2,2'-oxybis(1-Chloropropane)	UG/L		10	U		NA
WM-53	2,4,5-Trichlorophenol	UG/L		25	U		NA
WM-53	2,4,6-Trichlorophenol	UG/L		10	U		NA
WM-53	2,4-Dichlorophenol	UG/L		10	U		NA
WM-53	2,4-Dimethylphenol	UG/L		10	U		NA
WM-53	2,4-Dinitrophenol	UG/L		25	U	UJ	NA
WM-53	2,4-Dinitrotoluene	UG/L		10	U	UJ	NA
WM-53	2,6-Dinitrotoluene	UG/L		10	U		NA
WM-53	2-Chloronaphthalene	UG/L		10	U		NA
WM-53	2-Chlorophenol	UG/L		10	U		NA
WM-53	2-Methylnaphthalene	UG/L		10	U		NA
WM-53	2-Methylphenol	UG/L		10	U		NA
WM-53	2-Nitroaniline	UG/L		25	U		NA
WM-53	2-Nitrophenol	UG/L		10	U		NA
WM-53	3,3'-Dichlorobenzidine	UG/L		10	U		NA
WM-53	3-Nitroaniline	UG/L		25	U		NA
WM-53	4,6-Dinitro-2-methylphenol	UG/L		25	U	UJ	NA
WM-53	4-Bromophenyl-phenylether	UG/L		10	U		NA
WM-53	4-Chloro-3-methylphenol	UG/L		10	U		NA
WM-53	4-Chloroaniline	UG/L		10	U		NA
WM-53	4-Chlorophenyl-phenyl ether	UG/L		10	U		NA
WM-53	4-Methylphenol	UG/L		10	U		NA
WM-53	4-Nitroaniline	UG/L		25	U		NA
WM-53	4-Nitrophenol	UG/L		25	U		NA
WM-53	Acenaphthene	UG/L		10	U		NA
WM-53	Acenaphthylene	UG/L		10	U		NA
WM-53	Anthracene	UG/L		10	U		NA
WM-53	Benzo(a)anthracene	UG/L		10	U		NA
WM-53	Benzo(a)pyrene	UG/L		10	U		NA
WM-53	Benzo(b)fluoranthene	UG/L		10	U		NA
WM-53	Benzo(g,h,i)perylene	UG/L		10	U		NA
WM-53	Benzo(k)fluoranthene	UG/L		10	U		NA
WM-53	Bis(2-chloroethoxy)methane	UG/L		10	U		NA
WM-53	bis(2-chloroethyl) ether	UG/L		10	U		NA
WM-53	Bis(2-ethylhexyl)phthalate	UG/L		14			0.01
WM-53	Butylbenzylphthalate	UG/L		10	U		NA
WM-53	Carbazole	UG/L		10	U		NA
WM-53	Chrysene	UG/L		10	U		NA

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Comparison of Results to Baseline Highest Detections
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Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
WM-53	Di-n-butylphthalate	UG/L		10	U		NA
WM-53	Di-n-octylphthalate	UG/L		10	U		NA
WM-53	Dibenzo(a,h)anthracene	UG/L		10	U		NA
WM-53	Dibenzofuran	UG/L		10	U		NA
WM-53	Diethylphthalate	UG/L		10	U		NA
WM-53	Dimethylphthalate	UG/L		10	U		NA
WM-53	Fluoranthene	UG/L		10	U		NA
WM-53	Fluorene	UG/L		10	U		NA
WM-53	Hexachlorobenzene	UG/L		10	U		NA
WM-53	Hexachlorobutadiene	UG/L		10	U		NA
WM-53	Hexachlorocyclopentadiene	UG/L		10	U		NA
WM-53	Hexachloroethane	UG/L		10	U		NA
WM-53	Indeno(1,2,3-cd)pyrene	UG/L		10	U		NA
WM-53	Isophorone	UG/L		10	U		NA
WM-53	N-Nitroso-di-n-propylamine	UG/L		10	U		NA
WM-53	N-Nitrosodiphenylamine	UG/L		10	U		NA
WM-53	Naphthalene	UG/L		10	U		NA
WM-53	Nitrobenzene	UG/L		10	U		NA
WM-53	Pentachlorophenol	UG/L		25	U		NA
WM-53	Phenanthrene	UG/L		10	U		NA
WM-53	Phenol	UG/L		10	U		NA
WM-53	Pyrene	UG/L		10	U		NA

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Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
ATMW-4D	4,4'-DDD	ug/L			U		0.1
ATMW-4D	4,4'-DDE	ug/L			U		0.1
ATMW-4D	4,4'-DDT	ug/L			U		0.1
ATMW-4D	alpha-BHC	ug/L			U		0.051
ATMW-4D	alpha-Chlordane	ug/L			U		0.051
ATMW-4D	Aroclor-1016	ug/L			U		1
ATMW-4D	Aroclor-1221	ug/L			U		2
ATMW-4D	Aroclor-1232	ug/L			U		1
ATMW-4D	Aroclor-1242	ug/L			U		1
ATMW-4D	Aroclor-1248	ug/L			U		1
ATMW-4D	Aroclor-1254	ug/L			U		1
ATMW-4D	Aroclor-1260	ug/L			U		1
ATMW-4D	beta-BHC	ug/L			U		0.051
ATMW-4D	delta-BHC	ug/L			U		0.051
ATMW-4D	Dieldrin	ug/L			U		0.1
ATMW-4D	Endosulfan I	ug/L			U		0.051
ATMW-4D	Endosulfan II	ug/L			U		0.1
ATMW-4D	Endosulfan sulfate	ug/L			U		0.1
ATMW-4D	Endrin	ug/L			U		0.1
ATMW-4D	Endrin aldehyde	ug/L			U		0.1
ATMW-4D	Endrin ketone	ug/L			U		0.1
ATMW-4D	gamma-BHC	ug/L			U		0.051
ATMW-4D	gamma-Chlordane	ug/L			U		0.051
ATMW-4D	Heptachlor	ug/L			U		0.051
ATMW-4D	Heptachlor epoxide	ug/L			U		0.051
ATMW-4D	Methoxychlor	ug/L			U		0.51
ATMW-4D	Toxaphene	ug/L			U		5.1
M4S	4,4'-DDD	ug/L			U		0.1
M4S	4,4'-DDE	ug/L			U		0.1
M4S	4,4'-DDT	ug/L			U		0.1
M4S	Aldrin	ug/L			U		0.052
M4S	alpha-BHC	ug/L		0.0083	JP	JP	0.005
M4S	alpha-Chlordane	ug/L			U		0.052
M4S	Aroclor-1016	ug/L			U		1
M4S	Aroclor-1221	ug/L			U		2.1
M4S	Aroclor-1232	ug/L			U		1
M4S	Aroclor-1242	ug/L			U		1
M4S	Aroclor-1248	ug/L			U		1
M4S	Aroclor-1254	ug/L			U		1
M4S	Aroclor-1260	ug/L			U		1
M4S	beta-BHC	ug/L		0.016	JBP	JPB	0.005
M4S	delta-BHC	ug/L		0.0012	JP	JP	0.005
M4S	Dieldrin	ug/L			U		0.1
M4S	Endosulfan I	ug/L			U		0.052
M4S	Endosulfan II	ug/L			U		0.1
M4S	Endosulfan sulfate	ug/L			U		0.1

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Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
M4S	Endrin	ug/L			U		0.1
M4S	Endrin aldehyde	ug/L			U		0.1
M4S	Endrin ketone	ug/L			U		0.1
M4S	gamma-BHC	ug/L		0.011	J	J	0.005
M4S	gamma-Chlordane	ug/L			U		0.052
M4S	Heptachlor	ug/L			U		0.052
M4S	Heptachlor epoxide	ug/L			U		0.052
M4S	Methoxychlor	ug/L			U		0.52
M4S	Toxaphene	ug/L			U		5.2
MW-06	4,4'-DDD	ug/L	0.10		U		0.1
MW-06	4,4'-DDE	ug/L	0.10	0.0012	JP	JP	0.01
MW-06	4,4'-DDT	ug/L	0.10	0.0081	J		0.01
MW-06	Aldrin	ug/L	0.05		U		0.05
MW-06	alpha-BHC	ug/L	0.05	0.0095	JP	JP	0.005
MW-06	alpha-Chlordane	ug/L	0.05	0.0068	JP	JP	0.005
MW-06	Aroclor-1016	ug/L	1.0		U		1
MW-06	Aroclor-1221	ug/L	2.0		U		2
MW-06	Aroclor-1232	ug/L	1.0		U		1
MW-06	Aroclor-1242	ug/L	1.0		U		1
MW-06	Aroclor-1248	ug/L	1.0		U		1
MW-06	Aroclor-1254	ug/L	1.0		U		1
MW-06	Aroclor-1260	ug/L	1.0		U		1
MW-06	beta-BHC	ug/L	0.05	**0.36**	BP	P	0.005
MW-06	delta-BHC	ug/L	0.05	0.004	JP	JP	0.005
MW-06	Dieldrin	ug/L	0.10	0.0069	JP	JP	0.01
MW-06	Endosulfan I	ug/L	0.05		U		0.05
MW-06	Endosulfan II	ug/L	0.10		U		0.1
MW-06	Endosulfan sulfate	ug/L	0.10		U		0.1
MW-06	Endrin	ug/L	0.10	0.021	JP	JP	0.01
MW-06	Endrin aldehyde	ug/L	0.10		U		0.1
MW-06	Endrin ketone	ug/L	0.10		U		0.1
MW-06	gamma-BHC	ug/L	0.05	0.0066	JP	JP	0.005
MW-06	gamma-Chlordane	ug/L	0.05		U		0.05
MW-06	Heptachlor	ug/L	0.05	0.0043	JP	JP	0.005
MW-06	Heptachlor epoxide	ug/L	0.05		U		0.05
MW-06	Methoxychlor	ug/L	0.50		U		0.5
MW-06	Toxaphene	ug/L	5.0		U		5
MW-08	4,4'-DDD	ug/L	0.10		U		0.095
MW-08	4,4'-DDE	ug/L	0.10		U		0.095
MW-08	4,4'-DDT	ug/L	0.10		U		0.095
MW-08	Aldrin	ug/L	0.05		U		0.048
MW-08	alpha-BHC	ug/L	0.05		U		0.048
MW-08	alpha-Chlordane	ug/L	0.05		U		0.048
MW-08	Aroclor-1016	ug/L	1.0		U		0.95
MW-08	Aroclor-1221	ug/L	2.0		U		1.9
MW-08	Aroclor-1232	ug/L	1.0		U		0.95

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				Result	LQ	DQ	Detect Limit
MW-08	Aroclor-1242	ug/L	1.0		U		0.95
MW-08	Aroclor-1248	ug/L	1.0		U		0.95
MW-08	Aroclor-1254	ug/L	1.0		U		0.95
MW-08	Aroclor-1260	ug/L	1.0		U		0.95
MW-08	beta-BHC	ug/L	0.05		U		0.048
MW-08	delta-BHC	ug/L	0.05		U		0.048
MW-08	Dieldrin	ug/L	0.10		U		0.095
MW-08	Endosulfan I	ug/L	0.05		U		0.048
MW-08	Endosulfan II	ug/L	0.10		U		0.095
MW-08	Endosulfan sulfate	ug/L	0.10		U		0.095
MW-08	Endrin	ug/L	0.10		U		0.095
MW-08	Endrin aldehyde	ug/L	0.10		U		0.095
MW-08	Endrin ketone	ug/L	0.10		U		0.095
MW-08	gamma-BHC	ug/L	0.05		U		0.048
MW-08	gamma-Chlordane	ug/L	0.05		U		0.048
MW-08	Heptachlor	ug/L	0.05		U		0.048
MW-08	Heptachlor epoxide	ug/L	0.05		U		0.048
MW-08	Methoxychlor	ug/L	0.50		U		0.48
MW-08	Toxaphene	ug/L	5.0		U		4.8
MW-09R	4,4'-DDD	ug/L	0.10		U		0.05
MW-09R	4,4'-DDD	ug/L	0.10		U		0.1
MW-09R	4,4'-DDE	ug/L	0.10		U		0.05
MW-09R	4,4'-DDE	ug/L	0.10		U		0.1
MW-09R	4,4'-DDT	ug/L	0.10		U		0.05
MW-09R	4,4'-DDT	ug/L	0.10		U		0.1
MW-09R	Aldrin	ug/L	0.05		U		0.05
MW-09R	Aldrin	ug/L	0.05		U		0.05
MW-09R	alpha-BHC	ug/L	0.05		U		0.05
MW-09R	alpha-BHC	ug/L	0.05		U		0.05
MW-09R	alpha-Chlordane	ug/L	0.05	0.01	JP	JP	0.005
MW-09R	alpha-Chlordane	ug/L	0.05		U		0.05
MW-09R	Aroclor-1016	ug/L	1.0		U		1
MW-09R	Aroclor-1016	ug/L	1.0		U		1
MW-09R	Aroclor-1221	ug/L	2.0		U		1
MW-09R	Aroclor-1221	ug/L	2.0		U		2
MW-09R	Aroclor-1232	ug/L	1.0		U		1
MW-09R	Aroclor-1232	ug/L	1.0		U		1
MW-09R	Aroclor-1242	ug/L	1.0		U		1
MW-09R	Aroclor-1242	ug/L	1.0		U		1
MW-09R	Aroclor-1248	ug/L	1.0		U		1
MW-09R	Aroclor-1248	ug/L	1.0		U		1
MW-09R	Aroclor-1254	ug/L	1.0		U		1
MW-09R	Aroclor-1254	ug/L	1.0		U		1
MW-09R	Aroclor-1260	ug/L	1.0		U		1
MW-09R	Aroclor-1260	ug/L	1.0		U		1
MW-09R	beta-BHC	ug/L	0.05		U		0.05

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CAS/cas
J:\1252\042\Databases\1998\ACS GW.mdb\rptNewResultsPCB
1252042.221601

Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-09R	beta-BHC	ug/L	0.05		U		0.05
MW-09R	delta-BHC	ug/L	0.05	0.0053	JP	JP	0.005
MW-09R	delta-BHC	ug/L	0.05		U		0.05
MW-09R	Dieldrin	ug/L	0.10		U		0.1
MW-09R	Dieldrin	ug/L	0.10		U		0.05
MW-09R	Endosulfan I	ug/L	0.05		U		0.05
MW-09R	Endosulfan I	ug/L	0.05		U		0.05
MW-09R	Endosulfan II	ug/L	0.10		U		0.1
MW-09R	Endosulfan II	ug/L	0.10		U		0.05
MW-09R	Endosulfan sulfate	ug/L	0.10		U		0.05
MW-09R	Endosulfan sulfate	ug/L	0.10		U		0.1
MW-09R	Endrin	ug/L	0.10		U		0.05
MW-09R	Endrin	ug/L	0.10		U		0.1
MW-09R	Endrin aldehyde	ug/L	0.10		U		0.05
MW-09R	Endrin aldehyde	ug/L	0.10		U		0.1
MW-09R	Endrin ketone	ug/L	0.10		U		0.1
MW-09R	Endrin ketone	ug/L	0.10		U		0.05
MW-09R	gamma-BHC	ug/L	0.05		U		0.05
MW-09R	gamma-BHC	ug/L	0.05		U		0.05
MW-09R	gamma-Chlordane	ug/L	0.05		U		0.05
MW-09R	gamma-Chlordane	ug/L	0.05		U		0.05
MW-09R	Heptachlor	ug/L	0.05		U		0.05
MW-09R	Heptachlor	ug/L	0.05		U		0.05
MW-09R	Heptachlor epoxide	ug/L	0.05		U		0.05
MW-09R	Heptachlor epoxide	ug/L	0.05		U		0.05
MW-09R	Methoxychlor	ug/L	0.50		U		0.5
MW-09R	Methoxychlor	ug/L	0.50		U		0.1
MW-09R	Toxaphene	ug/L	5.0		U		2
MW-09R	Toxaphene	ug/L	5.0		U		5
MW-10C	4,4'-DDD	ug/L	0.10		U		0.098
MW-10C	4,4'-DDE	ug/L	0.10		U		0.098
MW-10C	4,4'-DDT	ug/L	0.10		U		0.098
MW-10C	Aldrin	ug/L	0.05		U		0.049
MW-10C	alpha-BHC	ug/L	0.05		U		0.049
MW-10C	alpha-Chlordane	ug/L	0.05		U		0.049
MW-10C	Aroclor-1016	ug/L	1.0		U		0.98
MW-10C	Aroclor-1221	ug/L	2.0		U		2
MW-10C	Aroclor-1232	ug/L	1.0		U		0.98
MW-10C	Aroclor-1242	ug/L	1.0		U		0.98
MW-10C	Aroclor-1248	ug/L	1.0		U		0.98
MW-10C	Aroclor-1254	ug/L	1.0		U		0.98
MW-10C	Aroclor-1260	ug/L	1.0		U		0.98
MW-10C	beta-BHC	ug/L	0.05	0.017	J	J	0.005
MW-10C	delta-BHC	ug/L	0.05	0.0023	JP	JP	0.005
MW-10C	Dieldrin	ug/L	0.10		U		0.098
MW-10C	Endosulfan I	ug/L	0.05		U		0.049

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Comparison of Results to Baseline Highest Detections
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Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-10C	Endosulfan II	ug/L	0.10		U		0.098
MW-10C	Endosulfan sulfate	ug/L	0.10		U		0.098
MW-10C	Endrin	ug/L	0.10		U		0.098
MW-10C	Endrin aldehyde	ug/L	0.10		U		0.098
MW-10C	Endrin ketone	ug/L	0.10		U		0.098
MW-10C	gamma-BHC	ug/L	0.05	0.0012	JP	JP	0.005
MW-10C	gamma-Chlordane	ug/L	0.05		U		0.049
MW-10C	Heptachlor	ug/L	0.05		U		0.049
MW-10C	Heptachlor epoxide	ug/L	0.05		U		0.049
MW-10C	Methoxychlor	ug/L	0.50		U		0.49
MW-10C	Toxaphene	ug/L	5.0		U		4.9
MW-13	4,4'-DDD	ug/L	0.10		U	UJ	0.1
MW-13	4,4'-DDE	ug/L	0.10		U	UJ	0.1
MW-13	4,4'-DDT	ug/L	0.10		U	UJ	0.1
MW-13	Aldrin	ug/L	0.05		U	UJ	0.05
MW-13	alpha-BHC	ug/L	0.05		U	UJ	0.05
MW-13	alpha-Chlordane	ug/L	0.05		U	UJ	0.05
MW-13	Aroclor-1016	ug/L	1.0		U	UJ	1
MW-13	Aroclor-1221	ug/L	2.0		U	UJ	2
MW-13	Aroclor-1232	ug/L	1.0		U	UJ	1
MW-13	Aroclor-1242	ug/L	1.0		U	UJ	1
MW-13	Aroclor-1248	ug/L	1.0		U	UJ	1
MW-13	Aroclor-1254	ug/L	1.0		U	UJ	1
MW-13	Aroclor-1260	ug/L	1.0		U	UJ	1
MW-13	beta-BHC	ug/L	0.05	0.0055	JBP	JP	0.005
MW-13	delta-BHC	ug/L	0.05		U	UJ	0.05
MW-13	Dieldrin	ug/L	0.10		U	UJ	0.1
MW-13	Endosulfan I	ug/L	0.05		U	UJ	0.05
MW-13	Endosulfan II	ug/L	0.10		U	UJ	0.1
MW-13	Endosulfan sulfate	ug/L	0.10		U	UJ	0.1
MW-13	Endrin	ug/L	0.10		U	UJ	0.1
MW-13	Endrin aldehyde	ug/L	0.10		U	UJ	0.1
MW-13	Endrin ketone	ug/L	0.10	0.0042	JBP	JP	0.01
MW-13	gamma-BHC	ug/L	0.05		U	UJ	0.05
MW-13	gamma-Chlordane	ug/L	0.05		U	UJ	0.05
MW-13	Heptachlor	ug/L	0.05		U	UJ	0.05
MW-13	Heptachlor epoxide	ug/L	0.05		U	UJ	0.05
MW-13	Methoxychlor	ug/L	0.50		U	UJ	0.5
MW-13	Toxaphene	ug/L	5.0		U	UJ	5
MW-14	4,4'-DDD	ug/L	0.10		U		0.098
MW-14	4,4'-DDE	ug/L	0.10		U		0.098
MW-14	4,4'-DDT	ug/L	0.10		U		0.098
MW-14	Aldrin	ug/L	0.05		U		0.049
MW-14	alpha-BHC	ug/L	0.05		U		0.049
MW-14	alpha-Chlordane	ug/L	0.05		U		0.049
MW-14	Aroclor-1016	ug/L	1.0		U		0.98

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				Result	LQ	DQ	Detect Limit
MW-14	Aroclor-1221	ug/L	2.0		U		2
MW-14	Aroclor-1232	ug/L	1.0		U		0.98
MW-14	Aroclor-1242	ug/L	1.0		U		0.98
MW-14	Aroclor-1248	ug/L	1.0		U		0.98
MW-14	Aroclor-1254	ug/L	1.0		U		0.98
MW-14	Aroclor-1260	ug/L	1.0		U		0.98
MW-14	beta-BHC	ug/L	0.05		U		0.049
MW-14	delta-BHC	ug/L	0.05		U		0.049
MW-14	Dieldrin	ug/L	0.10		U		0.098
MW-14	Endosulfan I	ug/L	0.05		U		0.049
MW-14	Endosulfan II	ug/L	0.10		U		0.098
MW-14	Endosulfan sulfate	ug/L	0.10		U		0.098
MW-14	Endrin	ug/L	0.10		U		0.098
MW-14	Endrin aldehyde	ug/L	0.10		U		0.098
MW-14	Endrin ketone	ug/L	0.10		U		0.098
MW-14	gamma-BHC	ug/L	0.05		U		0.049
MW-14	gamma-Chlordane	ug/L	0.05		U		0.049
MW-14	Heptachlor	ug/L	0.05	0.0022	JP	JP	0.005
MW-14	Heptachlor epoxide	ug/L	0.05		U		0.049
MW-14	Methoxychlor	ug/L	0.50		U		0.49
MW-14	Toxaphene	ug/L	5.0		U		4.9
MW-15	4,4'-DDD	ug/L	0.10		U		0.1
MW-15	4,4'-DDE	ug/L	0.10		U		0.1
MW-15	4,4'-DDT	ug/L	0.10		U		0.1
MW-15	Aldrin	ug/L	0.05	0.0021	JP	JP	0.005
MW-15	alpha-BHC	ug/L	0.05		U		0.051
MW-15	alpha-Chlordane	ug/L	0.05		U		0.051
MW-15	Aroclor-1016	ug/L	1.0		U		1
MW-15	Aroclor-1221	ug/L	2.0		U		2
MW-15	Aroclor-1232	ug/L	1.0		U		1
MW-15	Aroclor-1242	ug/L	1.0		U		1
MW-15	Aroclor-1248	ug/L	1.0		U		1
MW-15	Aroclor-1254	ug/L	1.0		U		1
MW-15	Aroclor-1260	ug/L	1.0		U		1
MW-15	beta-BHC	ug/L	0.05	0.0081	JBP	JPB	0.005
MW-15	delta-BHC	ug/L	0.05	0.0016	JP	JP	0.005
MW-15	Dieldrin	ug/L	0.10		U		0.1
MW-15	Endosulfan I	ug/L	0.05		U		0.051
MW-15	Endosulfan II	ug/L	0.10		U		0.1
MW-15	Endosulfan sulfate	ug/L	0.10		U		0.1
MW-15	Endrin	ug/L	0.10		U		0.1
MW-15	Endrin aldehyde	ug/L	0.10		U		0.1
MW-15	Endrin ketone	ug/L	0.10		U		0.1
MW-15	gamma-BHC	ug/L	0.05	0.0033	JP	JP	0.005
MW-15	gamma-Chlordane	ug/L	0.05		U		0.051
MW-15	Heptachlor	ug/L	0.05	0.0074	JP	JP	0.005

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Comparison of Results to Baseline Highest Detections
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Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-15	Heptachlor epoxide	ug/L	0.05		U		0.051
MW-15	Methoxychlor	ug/L	0.50		U		0.51
MW-15	Toxaphene	ug/L	5.0		U		5.1
MW-18	4,4'-DDD	ug/L	0.10		U		0.094
MW-18	4,4'-DDE	ug/L	0.10		U		0.094
MW-18	4,4'-DDT	ug/L	0.10		U		0.094
MW-18	Aldrin	ug/L	0.05		U		0.047
MW-18	alpha-BHC	ug/L	0.05		U		0.047
MW-18	alpha-Chlordane	ug/L	0.05		U		0.047
MW-18	Aroclor-1016	ug/L	1.0		U		0.94
MW-18	Aroclor-1221	ug/L	2.0		U		1.9
MW-18	Aroclor-1232	ug/L	1.0		U		0.94
MW-18	Aroclor-1242	ug/L	1.0		U		0.94
MW-18	Aroclor-1248	ug/L	1.0		U		0.94
MW-18	Aroclor-1254	ug/L	1.0		U		0.94
MW-18	Aroclor-1260	ug/L	1.0		U		0.94
MW-18	beta-BHC	ug/L	0.05		U		0.047
MW-18	delta-BHC	ug/L	0.05		U		0.047
MW-18	Dieldrin	ug/L	0.10		U		0.094
MW-18	Endosulfan I	ug/L	0.05		U		0.047
MW-18	Endosulfan II	ug/L	0.10		U		0.094
MW-18	Endosulfan sulfate	ug/L	0.10		U		0.094
MW-18	Endrin	ug/L	0.10		U		0.094
MW-18	Endrin aldehyde	ug/L	0.10		U		0.094
MW-18	Endrin ketone	ug/L	0.10		U		0.094
MW-18	gamma-BHC	ug/L	0.05		U		0.047
MW-18	gamma-Chlordane	ug/L	0.05		U		0.047
MW-18	Heptachlor	ug/L	0.05		U		0.047
MW-18	Heptachlor epoxide	ug/L	0.05		U		0.047
MW-18	Methoxychlor	ug/L	0.50	0.01	JP	JP	0.05
MW-18	Toxaphene	ug/L	5.0		U		4.7
MW-19	4,4'-DDD	ug/L	0.10		U		0.1
MW-19	4,4'-DDE	ug/L	0.10		U		0.1
MW-19	4,4'-DDT	ug/L	0.10		U		0.1
MW-19	Aldrin	ug/L	0.05		U		0.05
MW-19	alpha-BHC	ug/L	0.05	0.0038	JP	JP	0.005
MW-19	alpha-Chlordane	ug/L	0.05	0.0053	JP	JP	0.005
MW-19	Aroclor-1016	ug/L	1.0		U		1
MW-19	Aroclor-1221	ug/L	2.0		U		2
MW-19	Aroclor-1232	ug/L	1.0		U		1
MW-19	Aroclor-1242	ug/L	1.0		U		1
MW-19	Aroclor-1248	ug/L	1.0		U		1
MW-19	Aroclor-1254	ug/L	1.0		U		1
MW-19	Aroclor-1260	ug/L	1.0		U		1
MW-19	beta-BHC	ug/L	0.05	0.022	JBP	JP	0.005
MW-19	delta-BHC	ug/L	0.05	0.0019	JP	JP	0.005

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				Result	LQ	DQ	Detect Limit
MW-19	Dieldrin	ug/L	0.10		U		0.1
MW-19	Endosulfan I	ug/L	0.05		U		0.05
MW-19	Endosulfan II	ug/L	0.10	0.0019	JP	JP	0.01
MW-19	Endosulfan sulfate	ug/L	0.10		U		0.1
MW-19	Endrin	ug/L	0.10		U		0.1
MW-19	Endrin aldehyde	ug/L	0.10		U		0.1
MW-19	Endrin ketone	ug/L	0.10		U		0.1
MW-19	gamma-BHC	ug/L	0.05		U		0.05
MW-19	gamma-Chlordane	ug/L	0.05		U		0.05
MW-19	Heptachlor	ug/L	0.05	0.0044	JP	JP	0.005
MW-19	Heptachlor epoxide	ug/L	0.05		U		0.05
MW-19	Methoxychlor	ug/L	0.50		U		0.5
MW-19	Toxaphene	ug/L	5.0		U		5
MW-23	4,4'-DDD	ug/L	0.10		U		0.095
MW-23	4,4'-DDE	ug/L	0.10		U		0.095
MW-23	4,4'-DDT	ug/L	0.10		U		0.095
MW-23	Aldrin	ug/L	0.05		U		0.048
MW-23	alpha-BHC	ug/L	0.05		U		0.048
MW-23	alpha-Chlordane	ug/L	0.05		U		0.048
MW-23	Aroclor-1016	ug/L	1.0		U		0.95
MW-23	Aroclor-1221	ug/L	2.0		U		1.9
MW-23	Aroclor-1232	ug/L	1.0		U		0.95
MW-23	Aroclor-1242	ug/L	1.0		U		0.95
MW-23	Aroclor-1248	ug/L	1.0		U		0.95
MW-23	Aroclor-1254	ug/L	1.0		U		0.95
MW-23	Aroclor-1260	ug/L	1.0		U		0.95
MW-23	beta-BHC	ug/L	0.05		U		0.048
MW-23	delta-BHC	ug/L	0.05		U		0.048
MW-23	Dieldrin	ug/L	0.10		U		0.095
MW-23	Endosulfan I	ug/L	0.05		U		0.048
MW-23	Endosulfan II	ug/L	0.10		U		0.095
MW-23	Endosulfan sulfate	ug/L	0.10		U		0.095
MW-23	Endrin	ug/L	0.10		U		0.095
MW-23	Endrin aldehyde	ug/L	0.10		U		0.095
MW-23	Endrin ketone	ug/L	0.10		U		0.095
MW-23	gamma-BHC	ug/L	0.05		U		0.048
MW-23	gamma-Chlordane	ug/L	0.05		U		0.048
MW-23	Heptachlor	ug/L	0.05	0.0022	JP	JP	0.005
MW-23	Heptachlor epoxide	ug/L	0.05		U		0.048
MW-23	Methoxychlor	ug/L	0.50		U		0.48
MW-23	Toxaphene	ug/L	5.0		U		4.8
MW-24	4,4'-DDD	ug/L	0.10		U		0.095
MW-24	4,4'-DDE	ug/L	0.10		U		0.095
MW-24	4,4'-DDT	ug/L	0.10		U		0.095
MW-24	Aldrin	ug/L	0.05		U		0.048
MW-24	alpha-BHC	ug/L	0.05		U		0.048

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				Result	LQ	DQ	Detect Limit
MW-24	alpha-Chlordane	ug/L	0.05		U		0.048
MW-24	Aroclor-1016	ug/L	1.0		U		0.95
MW-24	Aroclor-1221	ug/L	2.0		U		1.9
MW-24	Aroclor-1232	ug/L	1.0		U		0.95
MW-24	Aroclor-1242	ug/L	1.0		U		0.95
MW-24	Aroclor-1248	ug/L	1.0		U		0.95
MW-24	Aroclor-1254	ug/L	1.0		U		0.95
MW-24	Aroclor-1260	ug/L	1.0		U		0.95
MW-24	beta-BHC	ug/L	0.05	0.0096	JBP	JP	0.005
MW-24	delta-BHC	ug/L	0.05	0.003	JP	JP	0.005
MW-24	Dieldrin	ug/L	0.10		U		0.095
MW-24	Endosulfan I	ug/L	0.05		U		0.048
MW-24	Endosulfan II	ug/L	0.10		U		0.095
MW-24	Endosulfan sulfate	ug/L	0.10		U		0.095
MW-24	Endrin	ug/L	0.10		U		0.095
MW-24	Endrin aldehyde	ug/L	0.10		U		0.095
MW-24	Endrin ketone	ug/L	0.10		U		0.095
MW-24	gamma-BHC	ug/L	0.05		U		0.048
MW-24	gamma-Chlordane	ug/L	0.05		U		0.048
MW-24	Heptachlor	ug/L	0.05		U		0.048
MW-24	Heptachlor epoxide	ug/L	0.05		U		0.048
MW-24	Methoxychlor	ug/L	0.50		U		0.48
MW-24	Toxaphene	ug/L	5.0		U		4.8
MW-28	4,4'-DDD	ug/L	0.10		U		0.096
MW-28	4,4'-DDE	ug/L	0.10		U		0.096
MW-28	4,4'-DDT	ug/L	0.10		U		0.096
MW-28	Aldrin	ug/L	0.05		U		0.048
MW-28	alpha-BHC	ug/L	0.05		U		0.048
MW-28	alpha-Chlordane	ug/L	0.05	0.0025	JP	JP	0.005
MW-28	Aroclor-1016	ug/L	1.0		U		0.96
MW-28	Aroclor-1221	ug/L	2.0		U		1.9
MW-28	Aroclor-1232	ug/L	1.0		U		0.96
MW-28	Aroclor-1242	ug/L	1.0		U		0.96
MW-28	Aroclor-1248	ug/L	1.0		U		0.96
MW-28	Aroclor-1254	ug/L	1.0		U		0.96
MW-28	Aroclor-1260	ug/L	1.0		U		0.96
MW-28	beta-BHC	ug/L	0.05		U		0.048
MW-28	delta-BHC	ug/L	0.05		U		0.048
MW-28	Dieldrin	ug/L	0.10		U		0.096
MW-28	Endosulfan I	ug/L	0.05		U		0.048
MW-28	Endosulfan II	ug/L	0.10		U		0.096
MW-28	Endosulfan sulfate	ug/L	0.10		U		0.096
MW-28	Endrin	ug/L	0.10		U		0.096
MW-28	Endrin aldehyde	ug/L	0.10		U		0.096
MW-28	Endrin ketone	ug/L	0.10		U		0.096
MW-28	gamma-BHC	ug/L	0.05		U		0.048

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CAS/cas
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1252042.221601

Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-28	gamma-Chlordane	ug/L	0.05		U		0.048
MW-28	Heptachlor	ug/L	0.05		U		0.048
MW-28	Heptachlor epoxide	ug/L	0.05		U		0.048
MW-28	Methoxychlor	ug/L	0.50		U		0.48
MW-28	Toxaphene	ug/L	5.0		U		4.8
MW-29	4,4'-DDD	ug/L	0.10		U		0.098
MW-29	4,4'-DDE	ug/L	0.10		U		0.098
MW-29	4,4'-DDT	ug/L	0.10		U		0.098
MW-29	Aldrin	ug/L	0.05		U		0.049
MW-29	alpha-BHC	ug/L	0.05		U		0.049
MW-29	alpha-Chlordane	ug/L	0.05		U		0.049
MW-29	Aroclor-1016	ug/L	1.0		U		0.98
MW-29	Aroclor-1221	ug/L	2.0		U		2
MW-29	Aroclor-1232	ug/L	1.0		U		0.98
MW-29	Aroclor-1242	ug/L	1.0		U		0.98
MW-29	Aroclor-1248	ug/L	1.0		U		0.98
MW-29	Aroclor-1254	ug/L	1.0		U		0.98
MW-29	Aroclor-1260	ug/L	1.0		U		0.98
MW-29	beta-BHC	ug/L	0.05		U		0.049
MW-29	delta-BHC	ug/L	0.05	0.0045	JP	JP	0.005
MW-29	Dieldrin	ug/L	0.10		U		0.098
MW-29	Endosulfan I	ug/L	0.05		U		0.049
MW-29	Endosulfan II	ug/L	0.10		U		0.098
MW-29	Endosulfan sulfate	ug/L	0.10		U		0.098
MW-29	Endrin	ug/L	0.10		U		0.098
MW-29	Endrin aldehyde	ug/L	0.10		U		0.098
MW-29	Endrin ketone	ug/L	0.10		U		0.098
MW-29	gamma-BHC	ug/L	0.05		U		0.049
MW-29	gamma-Chlordane	ug/L	0.05	0.0018	JP	JP	0.005
MW-29	Heptachlor	ug/L	0.05		U		0.049
MW-29	Heptachlor epoxide	ug/L	0.05		U		0.049
MW-29	Methoxychlor	ug/L	0.50		U		0.49
MW-29	Toxaphene	ug/L	5.0		U		4.9
MW-30	4,4'-DDD	ug/L	0.10		U	JP	0.094
MW-30	4,4'-DDE	ug/L	0.10		U		0.094
MW-30	4,4'-DDT	ug/L	0.10		U		0.094
MW-30	Aldrin	ug/L	0.05		U		0.047
MW-30	alpha-BHC	ug/L	0.05		U		0.047
MW-30	alpha-Chlordane	ug/L	0.05		U		0.047
MW-30	Aroclor-1016	ug/L	1.0		U		0.94
MW-30	Aroclor-1221	ug/L	2.0		U		1.9
MW-30	Aroclor-1232	ug/L	1.0		U		0.94
MW-30	Aroclor-1242	ug/L	1.0		U		0.94
MW-30	Aroclor-1248	ug/L	1.0		U		0.94
MW-30	Aroclor-1254	ug/L	1.0		U		0.94
MW-30	Aroclor-1260	ug/L	1.0		U		0.94

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Comparison of Results to Baseline Highest Detections
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Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-30	beta-BHC	ug/L	0.05		U		0.047
MW-30	delta-BHC	ug/L	0.05		U		0.047
MW-30	Dieldrin	ug/L	0.10		U		0.094
MW-30	Endosulfan I	ug/L	0.05		U		0.047
MW-30	Endosulfan II	ug/L	0.10		U		0.094
MW-30	Endosulfan sulfate	ug/L	0.10		U		0.094
MW-30	Endrin	ug/L	0.10		U		0.094
MW-30	Endrin aldehyde	ug/L	0.10		U		0.094
MW-30	Endrin ketone	ug/L	0.10		U		0.094
MW-30	gamma-BHC	ug/L	0.05		U		0.047
MW-30	gamma-Chlordane	ug/L	0.05		U		0.047
MW-30	Heptachlor	ug/L	0.05		U		0.047
MW-30	Heptachlor epoxide	ug/L	0.05		U		0.047
MW-30	Methoxychlor	ug/L	0.50	0.0066	JBP		0.05
MW-30	Toxaphene	ug/L	5.0		U		4.7
MW-31	4,4'-DDD	ug/L	0.10		U		0.095
MW-31	4,4'-DDE	ug/L	0.10		U		0.095
MW-31	4,4'-DDT	ug/L	0.10		U		0.095
MW-31	Aldrin	ug/L	0.05		U		0.048
MW-31	alpha-BHC	ug/L	0.05		U		0.048
MW-31	alpha-Chlordane	ug/L	0.05		U		0.048
MW-31	Aroclor-1016	ug/L	1.0		U		0.95
MW-31	Aroclor-1221	ug/L	2.0		U		1.9
MW-31	Aroclor-1232	ug/L	1.0		U		0.95
MW-31	Aroclor-1242	ug/L	1.0		U		0.95
MW-31	Aroclor-1248	ug/L	1.0		U		0.95
MW-31	Aroclor-1254	ug/L	1.0		U		0.95
MW-31	Aroclor-1260	ug/L	1.0		U		0.95
MW-31	beta-BHC	ug/L	0.05	0.014	JP	JP	0.005
MW-31	delta-BHC	ug/L	0.05	0.0013	JBP	JP	0.005
MW-31	Dieldrin	ug/L	0.10		U		0.095
MW-31	Endosulfan I	ug/L	0.05		U		0.048
MW-31	Endosulfan II	ug/L	0.10		U		0.095
MW-31	Endosulfan sulfate	ug/L	0.10		U		0.095
MW-31	Endrin	ug/L	0.10		U		0.095
MW-31	Endrin aldehyde	ug/L	0.10		U		0.095
MW-31	Endrin ketone	ug/L	0.10		U		0.095
MW-31	gamma-BHC	ug/L	0.05		U		0.048
MW-31	gamma-Chlordane	ug/L	0.05		U		0.048
MW-31	Heptachlor	ug/L	0.05		U		0.048
MW-31	Heptachlor epoxide	ug/L	0.05		U		0.048
MW-31	Methoxychlor	ug/L	0.50		U		0.48
MW-31	Toxaphene	ug/L	5.0		U		4.8
MW-32	4,4'-DDD	ug/L	0.10		U		0.097
MW-32	4,4'-DDE	ug/L	0.10		U		0.097
MW-32	4,4'-DDT	ug/L	0.10		U		0.097

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Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-32	Aldrin	ug/L	0.05		U		0.048
MW-32	alpha-BHC	ug/L	0.05		U		0.048
MW-32	alpha-Chlordane	ug/L	0.05		U		0.048
MW-32	Aroclor-1016	ug/L	1.0		U		0.97
MW-32	Aroclor-1221	ug/L	2.0		U		1.9
MW-32	Aroclor-1232	ug/L	1.0		U		0.97
MW-32	Aroclor-1242	ug/L	1.0		U		0.97
MW-32	Aroclor-1248	ug/L	1.0		U		0.97
MW-32	Aroclor-1254	ug/L	1.0		U		0.97
MW-32	Aroclor-1260	ug/L	1.0		U		0.97
MW-32	beta-BHC	ug/L	0.05		U		0.048
MW-32	delta-BHC	ug/L	0.05		U		0.048
MW-32	Dieldrin	ug/L	0.10		U		0.097
MW-32	Endosulfan I	ug/L	0.05		U		0.048
MW-32	Endosulfan II	ug/L	0.10		U		0.097
MW-32	Endosulfan sulfate	ug/L	0.10		U		0.097
MW-32	Endrin	ug/L	0.10		U		0.097
MW-32	Endrin aldehyde	ug/L	0.10		U		0.097
MW-32	Endrin ketone	ug/L	0.10		U		0.097
MW-32	gamma-BHC	ug/L	0.05		U		0.048
MW-32	gamma-Chlordane	ug/L	0.05		U		0.048
MW-32	Heptachlor	ug/L	0.05		U		0.048
MW-32	Heptachlor epoxide	ug/L	0.05		U		0.048
MW-32	Methoxychlor	ug/L	0.50		U		0.48
MW-32	Toxaphene	ug/L	5.0		U		4.8
MW-33	4,4'-DDD	ug/L	0.10	0.0024	JP	JP	0.01
MW-33	4,4'-DDE	ug/L	0.10		U		0.095
MW-33	4,4'-DDT	ug/L	0.10		U		0.095
MW-33	Aldrin	ug/L	0.05		U		0.048
MW-33	alpha-BHC	ug/L	0.05		U		0.048
MW-33	alpha-Chlordane	ug/L	0.05	0.0014	JP	JP	0.005
MW-33	Aroclor-1016	ug/L	1.0		U		0.95
MW-33	Aroclor-1221	ug/L	2.0		U		1.9
MW-33	Aroclor-1232	ug/L	1.0		U		0.95
MW-33	Aroclor-1242	ug/L	1.0		U		0.95
MW-33	Aroclor-1248	ug/L	1.0		U		0.95
MW-33	Aroclor-1254	ug/L	1.0		U		0.95
MW-33	Aroclor-1260	ug/L	1.0		U		0.95
MW-33	beta-BHC	ug/L	0.05	0.017	JBP	JPB	0.005
MW-33	delta-BHC	ug/L	0.05		U		0.048
MW-33	Dieldrin	ug/L	0.10		U		0.095
MW-33	Endosulfan I	ug/L	0.05		U		0.048
MW-33	Endosulfan II	ug/L	0.10		U		0.095
MW-33	Endosulfan sulfate	ug/L	0.10		U		0.095
MW-33	Endrin	ug/L	0.10		U		0.095
MW-33	Endrin aldehyde	ug/L	0.10		U		0.095

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Comparison of Results to Baseline Highest Detections
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Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-33	Endrin ketone	ug/L	0.10		U		0.095
MW-33	gamma-BHC	ug/L	0.05	0.0025	JP	JP	0.005
MW-33	gamma-Chlordane	ug/L	0.05		U		0.048
MW-33	Heptachlor	ug/L	0.05	0.007	JP	JP	0.005
MW-33	Heptachlor epoxide	ug/L	0.05		U		0.048
MW-33	Methoxychlor	ug/L	0.50	0.0036	JBP	JP	0.05
MW-33	Toxaphene	ug/L	5.0		U		4.8
MW-37	4,4'-DDD	ug/L	0.10		U		0.095
MW-37	4,4'-DDE	ug/L	0.10		U		0.095
MW-37	4,4'-DDT	ug/L	0.10		U		0.095
MW-37	Aldrin	ug/L	0.05		U		0.048
MW-37	alpha-BHC	ug/L	0.05		U		0.048
MW-37	alpha-Chlordane	ug/L	0.05		U		0.048
MW-37	Aroclor-1016	ug/L	1.0		U		0.95
MW-37	Aroclor-1221	ug/L	2.0		U		1.9
MW-37	Aroclor-1232	ug/L	1.0		U		0.95
MW-37	Aroclor-1242	ug/L	1.0		U		0.95
MW-37	Aroclor-1248	ug/L	1.0		U		0.95
MW-37	Aroclor-1254	ug/L	1.0		U		0.95
MW-37	Aroclor-1260	ug/L	1.0		U		0.95
MW-37	beta-BHC	ug/L	0.05	0.019	J	J	0.005
MW-37	delta-BHC	ug/L	0.05		U		0.048
MW-37	Dieldrin	ug/L	0.10		U		0.095
MW-37	Endosulfan I	ug/L	0.05		U		0.048
MW-37	Endosulfan II	ug/L	0.10		U		0.095
MW-37	Endosulfan sulfate	ug/L	0.10		U		0.095
MW-37	Endrin	ug/L	0.10		U		0.095
MW-37	Endrin aldehyde	ug/L	0.10		U		0.095
MW-37	Endrin ketone	ug/L	0.10		U		0.095
MW-37	gamma-BHC	ug/L	0.05		U		0.048
MW-37	gamma-Chlordane	ug/L	0.05		U		0.048
MW-37	Heptachlor	ug/L	0.05		U		0.048
MW-37	Heptachlor epoxide	ug/L	0.05		U		0.048
MW-37	Methoxychlor	ug/L	0.50		U		0.48
MW-37	Toxaphene	ug/L	5.0		U		4.8
MW-38	4,4'-DDD	ug/L	0.10		U		0.097
MW-38	4,4'-DDE	ug/L	0.10	0.0086	JP	JP	0.01
MW-38	4,4'-DDT	ug/L	0.10	0.068	JP	JP	0.01
MW-38	Aldrin	ug/L	0.05		U		0.048
MW-38	alpha-BHC	ug/L	0.05		U		0.048
MW-38	alpha-Chlordane	ug/L	0.05		U		0.048
MW-38	Aroclor-1016	ug/L	1.0		U		0.97
MW-38	Aroclor-1221	ug/L	2.0		U		1.9
MW-38	Aroclor-1232	ug/L	1.0		U		0.97
MW-38	Aroclor-1242	ug/L	1.0		U		0.97
MW-38	Aroclor-1248	ug/L	1.0		U		0.97

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Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-38	Aroclor-1254	ug/L	1.0		U		0.97
MW-38	Aroclor-1260	ug/L	1.0		U		0.97
MW-38	beta-BHC	ug/L	0.05		U		0.048
MW-38	delta-BHC	ug/L	0.05	0.0056	JP	JP	0.005
MW-38	Dieldrin	ug/L	0.10	0.0074	JP	JP	0.01
MW-38	Endosulfan I	ug/L	0.05		U		0.048
MW-38	Endosulfan II	ug/L	0.10		U		0.097
MW-38	Endosulfan sulfate	ug/L	0.10	0.027	JP	JP	0.01
MW-38	Endrin	ug/L	0.10	0.0068	JP	JP	0.01
MW-38	Endrin aldehyde	ug/L	0.10		U		0.097
MW-38	Endrin ketone	ug/L	0.10	0.0064	JBP	JP	0.01
MW-38	gamma-BHC	ug/L	0.05		U		0.048
MW-38	gamma-Chlordane	ug/L	0.05	0.0083	J	J	0.005
MW-38	Heptachlor	ug/L	0.05	0.0083	JP	JP	0.005
MW-38	Heptachlor epoxide	ug/L	0.05		U		0.048
MW-38	Methoxychlor	ug/L	0.50	0.11	JB	J	0.05
MW-38	Toxaphene	ug/L	5.0		U		4.8
MW-39	4,4'-DDD	ug/L	0.10		U		0.092
MW-39	4,4'-DDE	ug/L	0.10		U		0.092
MW-39	4,4'-DDT	ug/L	0.10		U		0.092
MW-39	Aldrin	ug/L	0.05		U		0.046
MW-39	alpha-BHC	ug/L	0.05		U		0.046
MW-39	alpha-Chlordane	ug/L	0.05		U		0.046
MW-39	Aroclor-1016	ug/L	1.0		U		0.92
MW-39	Aroclor-1221	ug/L	2.0		U		1.8
MW-39	Aroclor-1232	ug/L	1.0		U		0.92
MW-39	Aroclor-1242	ug/L	1.0		U		0.92
MW-39	Aroclor-1248	ug/L	1.0		U		0.92
MW-39	Aroclor-1254	ug/L	1.0		U		0.92
MW-39	Aroclor-1260	ug/L	1.0		U		0.92
MW-39	beta-BHC	ug/L	0.05		U		0.046
MW-39	delta-BHC	ug/L	0.05		U		0.046
MW-39	Dieldrin	ug/L	0.10		U		0.092
MW-39	Endosulfan I	ug/L	0.05		U		0.046
MW-39	Endosulfan II	ug/L	0.10		U		0.092
MW-39	Endosulfan sulfate	ug/L	0.10		U		0.092
MW-39	Endrin	ug/L	0.10		U		0.092
MW-39	Endrin aldehyde	ug/L	0.10		U		0.092
MW-39	Endrin ketone	ug/L	0.10		U		0.092
MW-39	gamma-BHC	ug/L	0.05		U		0.046
MW-39	gamma-Chlordane	ug/L	0.05		U		0.046
MW-39	Heptachlor	ug/L	0.05		U		0.046
MW-39	Heptachlor epoxide	ug/L	0.05		U		0.046
MW-39	Methoxychlor	ug/L	0.50		U		0.46
MW-39	Toxaphene	ug/L	5.0		U		4.6
MW-41	4,4'-DDD	ug/L	0.10		U		0.098

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MW-41	4,4'-DDE	ug/L	0.10		U		0.098
MW-41	4,4'-DDT	ug/L	0.10		U		0.098
MW-41	Aldrin	ug/L	0.05		U		0.049
MW-41	alpha-BHC	ug/L	0.05		U		0.049
MW-41	alpha-Chlordane	ug/L	0.05		U		0.049
MW-41	Aroclor-1016	ug/L	1.0		U		0.98
MW-41	Aroclor-1221	ug/L	2.0		U		2
MW-41	Aroclor-1232	ug/L	1.0		U		0.98
MW-41	Aroclor-1242	ug/L	1.0		U		0.98
MW-41	Aroclor-1248	ug/L	1.0		U		0.98
MW-41	Aroclor-1254	ug/L	1.0		U		0.98
MW-41	Aroclor-1260	ug/L	1.0		U		0.98
MW-41	beta-BHC	ug/L	0.05		U		0.049
MW-41	delta-BHC	ug/L	0.05		U		0.049
MW-41	Dieldrin	ug/L	0.10		U		0.098
MW-41	Endosulfan I	ug/L	0.05		U		0.049
MW-41	Endosulfan II	ug/L	0.10		U		0.098
MW-41	Endosulfan sulfate	ug/L	0.10		U		0.098
MW-41	Endrin	ug/L	0.10		U		0.098
MW-41	Endrin aldehyde	ug/L	0.10		U		0.098
MW-41	Endrin ketone	ug/L	0.10		U		0.098
MW-41	gamma-BHC	ug/L	0.05		U		0.049
MW-41	gamma-Chlordane	ug/L	0.05		U		0.049
MW-41	Heptachlor	ug/L	0.05		U		0.049
MW-41	Heptachlor epoxide	ug/L	0.05		U		0.049
MW-41	Methoxychlor	ug/L	0.50		U		0.49
MW-41	Toxaphene	ug/L	5.0		U		4.9
MW-42	4,4'-DDD	ug/L	0.10		U		0.1
MW-42	4,4'-DDE	ug/L	0.10		U		0.1
MW-42	4,4'-DDT	ug/L	0.10		U		0.1
MW-42	Aldrin	ug/L	0.05		U		0.051
MW-42	alpha-BHC	ug/L	0.05		U		0.051
MW-42	alpha-Chlordane	ug/L	0.05		U		0.051
MW-42	Aroclor-1016	ug/L	1.0		U		1
MW-42	Aroclor-1221	ug/L	2.0		U		2
MW-42	Aroclor-1232	ug/L	1.0		U		1
MW-42	Aroclor-1242	ug/L	1.0		U		1
MW-42	Aroclor-1248	ug/L	1.0		U		1
MW-42	Aroclor-1254	ug/L	1.0		U		1
MW-42	Aroclor-1260	ug/L	1.0		U		1
MW-42	beta-BHC	ug/L	0.05		U		0.051
MW-42	delta-BHC	ug/L	0.05		U		0.051
MW-42	Dieldrin	ug/L	0.10		U		0.1
MW-42	Endosulfan I	ug/L	0.05		U		0.051
MW-42	Endosulfan II	ug/L	0.10		U		0.1
MW-42	Endosulfan sulfate	ug/L	0.10		U		0.1

BOLD = Exceedance
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CAS/cas
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1252042.221601

Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-42	Endrin	ug/L	0.10		U		0.1
MW-42	Endrin aldehyde	ug/L	0.10		U		0.1
MW-42	Endrin ketone	ug/L	0.10		U		0.1
MW-42	gamma-BHC	ug/L	0.05		U		0.051
MW-42	gamma-Chlordane	ug/L	0.05		U		0.051
MW-42	Heptachlor	ug/L	0.05		U		0.051
MW-42	Heptachlor epoxide	ug/L	0.05		U		0.051
MW-42	Methoxychlor	ug/L	0.50		U		0.51
MW-42	Toxaphene	ug/L	5.0		U		5.1
MW-43	4,4'-DDD	ug/L	0.10		U		0.097
MW-43	4,4'-DDE	ug/L	0.10		U		0.097
MW-43	4,4'-DDT	ug/L	0.10		U		0.097
MW-43	Aldrin	ug/L	0.05		U		0.048
MW-43	alpha-BHC	ug/L	0.05		U		0.048
MW-43	alpha-Chlordane	ug/L	0.05		U		0.048
MW-43	Aroclor-1016	ug/L	1.0		U		0.97
MW-43	Aroclor-1221	ug/L	2.0		U		1.9
MW-43	Aroclor-1232	ug/L	1.0		U		0.97
MW-43	Aroclor-1242	ug/L	1.0		U		0.97
MW-43	Aroclor-1248	ug/L	1.0		U		0.97
MW-43	Aroclor-1254	ug/L	1.0		U		0.97
MW-43	Aroclor-1260	ug/L	1.0		U		0.97
MW-43	beta-BHC	ug/L	0.05	0.0045	JB	JB	0.005
MW-43	delta-BHC	ug/L	0.05		U		0.048
MW-43	Dieldrin	ug/L	0.10		U		0.097
MW-43	Endosulfan I	ug/L	0.05		U		0.048
MW-43	Endosulfan II	ug/L	0.10		U		0.097
MW-43	Endosulfan sulfate	ug/L	0.10		U		0.097
MW-43	Endrin	ug/L	0.10		U		0.097
MW-43	Endrin aldehyde	ug/L	0.10		U		0.097
MW-43	Endrin ketone	ug/L	0.10		U		0.097
MW-43	gamma-BHC	ug/L	0.05		U		0.048
MW-43	gamma-Chlordane	ug/L	0.05		U		0.048
MW-43	Heptachlor	ug/L	0.05		U		0.048
MW-43	Heptachlor epoxide	ug/L	0.05		U		0.048
MW-43	Methoxychlor	ug/L	0.50		U		0.48
MW-43	Toxaphene	ug/L	5.0		U		4.8
MW-44	4,4'-DDD	ug/L	0.10		U		0.1
MW-44	4,4'-DDE	ug/L	0.10		U		0.1
MW-44	4,4'-DDT	ug/L	0.10		U		0.1
MW-44	Aldrin	ug/L	0.05	0.0018	JP	JP	0.01
MW-44	alpha-BHC	ug/L	0.05		U		0.05
MW-44	alpha-Chlordane	ug/L	0.05		U		0.05
MW-44	Aroclor-1016	ug/L	1.0		U		1
MW-44	Aroclor-1221	ug/L	2.0		U		2
MW-44	Aroclor-1232	ug/L	1.0		U		1

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Comparison of Results to Baseline Highest Detections
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American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-44	Aroclor-1242	ug/L	1.0		U		1
MW-44	Aroclor-1248	ug/L	1.0		U		1
MW-44	Aroclor-1254	ug/L	1.0		U		1
MW-44	Aroclor-1260	ug/L	1.0		U		1
MW-44	beta-BHC	ug/L	0.05		U		0.05
MW-44	delta-BHC	ug/L	0.05		U		0.05
MW-44	Dieldrin	ug/L	0.10		U		0.1
MW-44	Endosulfan I	ug/L	0.05		U		0.05
MW-44	Endosulfan II	ug/L	0.10		U		0.1
MW-44	Endosulfan sulfate	ug/L	0.10		U		0.1
MW-44	Endrin	ug/L	0.10		U		0.1
MW-44	Endrin aldehyde	ug/L	0.10		U		0.1
MW-44	Endrin ketone	ug/L	0.10		U		0.1
MW-44	gamma-BHC	ug/L	0.05		U		0.05
MW-44	gamma-Chlordane	ug/L	0.05	0.0011	JP	JP	0.01
MW-44	Heptachlor	ug/L	0.05		U	JP	0.05
MW-44	Heptachlor epoxide	ug/L	0.05	0.0011	JP	JP	0.01
MW-44	Methoxychlor	ug/L	0.50		U		0.5
MW-44	Toxaphene	ug/L	5.0		U		5
MW-45	4,4'-DDD	ug/L	0.10		U		0.1
MW-45	4,4'-DDE	ug/L	0.10		U		0.1
MW-45	4,4'-DDT	ug/L	0.10		U		0.1
MW-45	Aldrin	ug/L	0.05		U		0.05
MW-45	alpha-BHC	ug/L	0.05	0.0032	JP	JP	0.005
MW-45	alpha-Chlordane	ug/L	0.05		U		0.05
MW-45	Aroclor-1016	ug/L	1.0		U		1
MW-45	Aroclor-1221	ug/L	2.0		U		2
MW-45	Aroclor-1232	ug/L	1.0		U		1
MW-45	Aroclor-1242	ug/L	1.0		U		1
MW-45	Aroclor-1248	ug/L	1.0		U		1
MW-45	Aroclor-1254	ug/L	1.0		U		1
MW-45	Aroclor-1260	ug/L	1.0		U		1
MW-45	beta-BHC	ug/L	0.05	0.0078	JP	JP	0.005
MW-45	delta-BHC	ug/L	0.05		U		0.05
MW-45	Dieldrin	ug/L	0.10		U		0.1
MW-45	Endosulfan I	ug/L	0.05		U		0.05
MW-45	Endosulfan II	ug/L	0.10		U		0.1
MW-45	Endosulfan sulfate	ug/L	0.10		U		0.1
MW-45	Endrin	ug/L	0.10		U		0.1
MW-45	Endrin aldehyde	ug/L	0.10		U		0.1
MW-45	Endrin ketone	ug/L	0.10		U		0.1
MW-45	gamma-BHC	ug/L	0.05		U		0.05
MW-45	gamma-Chlordane	ug/L	0.05		U		0.05
MW-45	Heptachlor	ug/L	0.05		U		0.05
MW-45	Heptachlor epoxide	ug/L	0.05		U		0.05
MW-45	Methoxychlor	ug/L	0.50		U		0.5

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Comparison of Results to Baseline Highest Detections
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American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-45	Toxaphene	ug/L	5.0		U		5
MW-46	4,4'-DDD	ug/L	0.10		U		0.095
MW-46	4,4'-DDE	ug/L	0.10		U		0.095
MW-46	4,4'-DDT	ug/L	0.10		U		0.095
MW-46	Aldrin	ug/L	0.05		U		0.048
MW-46	alpha-BHC	ug/L	0.05		U		0.048
MW-46	alpha-Chlordane	ug/L	0.05		U		0.048
MW-46	Aroclor-1016	ug/L	1.0		U		0.95
MW-46	Aroclor-1221	ug/L	2.0		U		1.9
MW-46	Aroclor-1232	ug/L	1.0		U		0.95
MW-46	Aroclor-1242	ug/L	1.0		U		0.95
MW-46	Aroclor-1248	ug/L	1.0		U		0.95
MW-46	Aroclor-1254	ug/L	1.0		U		0.95
MW-46	Aroclor-1260	ug/L	1.0		U		0.95
MW-46	beta-BHC	ug/L	0.05		U		0.048
MW-46	delta-BHC	ug/L	0.05		U		0.048
MW-46	Dieldrin	ug/L	0.10		U		0.095
MW-46	Endosulfan I	ug/L	0.05		U		0.048
MW-46	Endosulfan II	ug/L	0.10		U		0.095
MW-46	Endosulfan sulfate	ug/L	0.10		U		0.095
MW-46	Endrin	ug/L	0.10		U		0.095
MW-46	Endrin aldehyde	ug/L	0.10		U		0.095
MW-46	Endrin ketone	ug/L	0.10		U		0.095
MW-46	gamma-BHC	ug/L	0.05		U		0.048
MW-46	gamma-Chlordane	ug/L	0.05		U		0.048
MW-46	Heptachlor	ug/L	0.05		U		0.048
MW-46	Heptachlor epoxide	ug/L	0.05		U		0.048
MW-46	Methoxychlor	ug/L	0.50		U		0.48
MW-46	Toxaphene	ug/L	5.0		U		4.8
MW-47	4,4'-DDD	ug/L	0.10		U		0.098
MW-47	4,4'-DDE	ug/L	0.10		U		0.098
MW-47	4,4'-DDT	ug/L	0.10		U		0.098
MW-47	Aldrin	ug/L	0.05		U	UJ	0.049
MW-47	alpha-BHC	ug/L	0.05		U		0.049
MW-47	alpha-Chlordane	ug/L	0.05		U		0.049
MW-47	Aroclor-1016	ug/L	1.0		U		0.98
MW-47	Aroclor-1221	ug/L	2.0		U		2
MW-47	Aroclor-1232	ug/L	1.0		U		0.98
MW-47	Aroclor-1242	ug/L	1.0		U		0.98
MW-47	Aroclor-1248	ug/L	1.0		U		0.98
MW-47	Aroclor-1254	ug/L	1.0		U		0.98
MW-47	Aroclor-1260	ug/L	1.0		U		0.98
MW-47	beta-BHC	ug/L	0.05		U		0.049
MW-47	delta-BHC	ug/L	0.05		U		0.049
MW-47	Dieldrin	ug/L	0.10		U	UJ	0.098
MW-47	Endosulfan I	ug/L	0.05		U		0.049

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Comparison of Results to Baseline Highest Detections
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Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-47	Endosulfan II	ug/L	0.10		U		0.098
MW-47	Endosulfan sulfate	ug/L	0.10		U		0.098
MW-47	Endrin	ug/L	0.10		U	UJ	0.098
MW-47	Endrin aldehyde	ug/L	0.10		U		0.098
MW-47	Endrin ketone	ug/L	0.10		U		0.098
MW-47	gamma-BHC	ug/L	0.05		U	UJ	0.049
MW-47	gamma-Chlordane	ug/L	0.05		U		0.049
MW-47	Heptachlor	ug/L	0.05		U	UJ	0.049
MW-47	Heptachlor epoxide	ug/L	0.05		U		0.049
MW-47	Methoxychlor	ug/L	0.50		U		0.49
MW-47	Toxaphene	ug/L	5.0		U		4.9
MW-48	4,4'-DDD	ug/L	0.10		U		0.095
MW-48	4,4'-DDE	ug/L	0.10		U		0.095
MW-48	4,4'-DDT	ug/L	0.10		U		0.095
MW-48	Aldrin	ug/L	0.05		U		0.048
MW-48	alpha-BHC	ug/L	0.05	0.011	JP	JP	0.005
MW-48	alpha-Chlordane	ug/L	0.05		U		0.048
MW-48	Aroclor-1016	ug/L	1.0		U		0.95
MW-48	Aroclor-1221	ug/L	2.0		U		1.9
MW-48	Aroclor-1232	ug/L	1.0		U		0.95
MW-48	Aroclor-1242	ug/L	1.0		U		0.95
MW-48	Aroclor-1248	ug/L	1.0		U		0.95
MW-48	Aroclor-1254	ug/L	1.0		U		0.95
MW-48	Aroclor-1260	ug/L	1.0		U		0.95
MW-48	beta-BHC	ug/L	0.05		U		0.048
MW-48	delta-BHC	ug/L	0.05		U		0.048
MW-48	Dieldrin	ug/L	0.10		U		0.095
MW-48	Endosulfan I	ug/L	0.05		U		0.048
MW-48	Endosulfan II	ug/L	0.10		U		0.095
MW-48	Endosulfan sulfate	ug/L	0.10		U		0.095
MW-48	Endrin	ug/L	0.10		U		0.095
MW-48	Endrin aldehyde	ug/L	0.10		U		0.095
MW-48	Endrin ketone	ug/L	0.10		U		0.095
MW-48	gamma-BHC	ug/L	0.05		U		0.048
MW-48	gamma-Chlordane	ug/L	0.05		U		0.048
MW-48	Heptachlor	ug/L	0.05	0.0018	JP	JP	0.005
MW-48	Heptachlor epoxide	ug/L	0.05		U		0.048
MW-48	Methoxychlor	ug/L	0.50		U		0.48
MW-48	Toxaphene	ug/L	5.0		U		4.8
MW-49	4,4'-DDD	ug/L	0.10		U	UJ	0.095
MW-49	4,4'-DDE	ug/L	0.10		U	UJ	0.095
MW-49	4,4'-DDT	ug/L	0.10		U	UJ	0.095
MW-49	Aldrin	ug/L	0.05		U	UJ	0.048
MW-49	alpha-BHC	ug/L	0.05		U	UJ	0.048
MW-49	alpha-Chlordane	ug/L	0.05		U	UJ	0.048
MW-49	Aroclor-1016	ug/L	1.0		U	UJ	0.95

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Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-49	Aroclor-1221	ug/L	2.0		U	UJ	1.9
MW-49	Aroclor-1232	ug/L	1.0		U	UJ	0.95
MW-49	Aroclor-1242	ug/L	1.0		U	UJ	0.95
MW-49	Aroclor-1248	ug/L	1.0		U	UJ	0.95
MW-49	Aroclor-1254	ug/L	1.0		U	UJ	0.95
MW-49	Aroclor-1260	ug/L	1.0		U	UJ	0.95
MW-49	beta-BHC	ug/L	0.05		U	UJ	0.048
MW-49	delta-BHC	ug/L	0.05	0.0019	JP	JP	0.005
MW-49	Dieldrin	ug/L	0.10		U	UJ	0.095
MW-49	Endosulfan I	ug/L	0.05		U	UJ	0.048
MW-49	Endosulfan II	ug/L	0.10		U	UJ	0.095
MW-49	Endosulfan sulfate	ug/L	0.10		U	UJ	0.095
MW-49	Endrin	ug/L	0.10		U	UJ	0.095
MW-49	Endrin aldehyde	ug/L	0.10		U	UJ	0.095
MW-49	Endrin ketone	ug/L	0.10	0.0044	JBP	JP	0.01
MW-49	gamma-BHC	ug/L	0.05		U	UJ	0.048
MW-49	gamma-Chlordane	ug/L	0.05		U	UJ	0.048
MW-49	Heptachlor	ug/L	0.05	0.0083	JP	JP	0.005
MW-49	Heptachlor epoxide	ug/L	0.05		U	UJ	0.048
MW-49	Methoxychlor	ug/L	0.50		U	UJ	0.48
MW-49	Toxaphene	ug/L	5.0		U	UJ	4.8
MW-50	4,4'-DDD	ug/L	0.10		U		0.1
MW-50	4,4'-DDE	ug/L	0.10		U		0.1
MW-50	4,4'-DDT	ug/L	0.10		U		0.1
MW-50	Aldrin	ug/L	0.05		U		0.05
MW-50	alpha-BHC	ug/L	0.05		U		0.05
MW-50	alpha-Chlordane	ug/L	0.05		U		0.05
MW-50	Aroclor-1016	ug/L	1.0		U		1
MW-50	Aroclor-1221	ug/L	2.0		U		2
MW-50	Aroclor-1232	ug/L	1.0		U		1
MW-50	Aroclor-1242	ug/L	1.0		U		1
MW-50	Aroclor-1248	ug/L	1.0		U		1
MW-50	Aroclor-1254	ug/L	1.0		U		1
MW-50	Aroclor-1260	ug/L	1.0		U		1
MW-50	beta-BHC	ug/L	0.05	0.009	JBP	JP	0.005
MW-50	delta-BHC	ug/L	0.05	0.00098	JBP	JP	0.005
MW-50	Dieldrin	ug/L	0.10		U		0.1
MW-50	Endosulfan I	ug/L	0.05		U		0.05
MW-50	Endosulfan II	ug/L	0.10		U		0.1
MW-50	Endosulfan sulfate	ug/L	0.10		U		0.1
MW-50	Endrin	ug/L	0.10		U		0.1
MW-50	Endrin aldehyde	ug/L	0.10		U		0.1
MW-50	Endrin ketone	ug/L	0.10		U		0.1
MW-50	gamma-BHC	ug/L	0.05		U		0.05
MW-50	gamma-Chlordane	ug/L	0.05		U		0.05
MW-50	Heptachlor	ug/L	0.05		U		0.05

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Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-50	Heptachlor epoxide	ug/L	0.05		U		0.05
MW-50	Methoxychlor	ug/L	0.50	0.0063	JBP	JPB	0.05
MW-50	Toxaphene	ug/L	5.0		U		5
MW-51	4,4'-DDD	ug/L	0.10		U		0.096
MW-51	4,4'-DDE	ug/L	0.10		U		0.096
MW-51	4,4'-DDT	ug/L	0.10		U		0.096
MW-51	Aldrin	ug/L	0.05		U		0.048
MW-51	alpha-BHC	ug/L	0.05	0.0015	JP	JP	0.005
MW-51	alpha-Chlordane	ug/L	0.05		U		0.048
MW-51	Aroclor-1016	ug/L	1.0		U		0.96
MW-51	Aroclor-1221	ug/L	2.0		U		1.9
MW-51	Aroclor-1232	ug/L	1.0		U		0.96
MW-51	Aroclor-1242	ug/L	1.0		U		0.96
MW-51	Aroclor-1248	ug/L	1.0		U		0.96
MW-51	Aroclor-1254	ug/L	1.0		U		0.96
MW-51	Aroclor-1260	ug/L	1.0		U		0.96
MW-51	beta-BHC	ug/L	0.05		U		0.048
MW-51	delta-BHC	ug/L	0.05		U		0.048
MW-51	Dieldrin	ug/L	0.10		U		0.096
MW-51	Endosulfan I	ug/L	0.05		U		0.048
MW-51	Endosulfan II	ug/L	0.10		U		0.096
MW-51	Endosulfan sulfate	ug/L	0.10		U		0.096
MW-51	Endrin	ug/L	0.10		U		0.096
MW-51	Endrin aldehyde	ug/L	0.10		U		0.096
MW-51	Endrin ketone	ug/L	0.10		U		0.096
MW-51	gamma-BHC	ug/L	0.05		U		0.048
MW-51	gamma-Chlordane	ug/L	0.05		U		0.048
MW-51	Heptachlor	ug/L	0.05		U		0.048
MW-51	Heptachlor epoxide	ug/L	0.05		U		0.048
MW-51	Methoxychlor	ug/L	0.50		U		0.48
MW-51	Toxaphene	ug/L	5.0		U		4.8
MW-52	4,4'-DDD	ug/L	0.10		U	UJ	0.1
MW-52	4,4'-DDE	ug/L	0.10		U	UJ	0.1
MW-52	4,4'-DDT	ug/L	0.10		U	UJ	0.1
MW-52	Aldrin	ug/L	0.05		U	UJ	0.05
MW-52	alpha-BHC	ug/L	0.05		U	UJ	0.05
MW-52	alpha-Chlordane	ug/L	0.05		U	UJ	0.05
MW-52	Aroclor-1016	ug/L	1.0		U	UJ	1
MW-52	Aroclor-1221	ug/L	2.0		U	UJ	2
MW-52	Aroclor-1232	ug/L	1.0		U	UJ	1
MW-52	Aroclor-1242	ug/L	1.0		U	UJ	1
MW-52	Aroclor-1248	ug/L	1.0		U	UJ	1
MW-52	Aroclor-1254	ug/L	1.0		U	UJ	1
MW-52	Aroclor-1260	ug/L	1.0		U	UJ	1
MW-52	beta-BHC	ug/L	0.05		U	UJ	0.05
MW-52	delta-BHC	ug/L	0.05	0.0025	J	J	0.005

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CAS/cas
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1252042.221601

Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-52	Dieldrin	ug/L	0.10		U	UJ	0.1
MW-52	Endosulfan I	ug/L	0.05		U	UJ	0.05
MW-52	Endosulfan II	ug/L	0.10		U	UJ	0.1
MW-52	Endosulfan sulfate	ug/L	0.10		U	UJ	0.1
MW-52	Endrin	ug/L	0.10		U	UJ	0.1
MW-52	Endrin aldehyde	ug/L	0.10		U	UJ	0.1
MW-52	Endrin ketone	ug/L	0.10	0.0038	JBP	JP	0.01
MW-52	gamma-BHC	ug/L	0.05		U	UJ	0.05
MW-52	gamma-Chlordane	ug/L	0.05		U	UJ	0.05
MW-52	Heptachlor	ug/L	0.05		U	UJ	0.05
MW-52	Heptachlor epoxide	ug/L	0.05		U	UJ	0.05
MW-52	Methoxychlor	ug/L	0.50		U	UJ	0.5
MW-52	Toxaphene	ug/L	5.0		U	UJ	5
MW-53	4,4'-DDD	ug/L	0.10		U	UJ	0.1
MW-53	4,4'-DDE	ug/L	0.10		U	UJ	0.1
MW-53	4,4'-DDT	ug/L	0.10		U	UJ	0.1
MW-53	Aldrin	ug/L	0.05		U	UJ	0.05
MW-53	alpha-BHC	ug/L	0.05		U	UJ	0.05
MW-53	alpha-Chlordane	ug/L	0.05		U	UJ	0.05
MW-53	Aroclor-1016	ug/L	1.0		U	UJ	1
MW-53	Aroclor-1221	ug/L	2.0		U	UJ	2
MW-53	Aroclor-1232	ug/L	1.0		U	UJ	1
MW-53	Aroclor-1242	ug/L	1.0		U	UJ	1
MW-53	Aroclor-1248	ug/L	1.0		U	UJ	1
MW-53	Aroclor-1254	ug/L	1.0		U	UJ	1
MW-53	Aroclor-1260	ug/L	1.0		U	UJ	1
MW-53	beta-BHC	ug/L	0.05		U	UJ	0.05
MW-53	delta-BHC	ug/L	0.05	0.0082	J	J	0.005
MW-53	Dieldrin	ug/L	0.10		U	UJ	0.1
MW-53	Endosulfan I	ug/L	0.05		U	UJ	0.05
MW-53	Endosulfan II	ug/L	0.10		U	UJ	0.1
MW-53	Endosulfan sulfate	ug/L	0.10		U	UJ	0.1
MW-53	Endrin	ug/L	0.10		U	UJ	0.1
MW-53	Endrin aldehyde	ug/L	0.10		U	UJ	0.1
MW-53	Endrin ketone	ug/L	0.10	0.0069	JBP	JP	0.01
MW-53	gamma-BHC	ug/L	0.05		U	UJ	0.05
MW-53	gamma-Chlordane	ug/L	0.05		U	UJ	0.05
MW-53	Heptachlor	ug/L	0.05	0.0085	JP	JP	0.005
MW-53	Heptachlor epoxide	ug/L	0.05		U	UJ	0.05
MW-53	Methoxychlor	ug/L	0.50		U	UJ	0.5
MW-53	Toxaphene	ug/L	5.0		U	UJ	5
MW-54R	4,4'-DDD	ug/L	0.10		U		0.096
MW-54R	4,4'-DDE	ug/L	0.10		U		0.096
MW-54R	4,4'-DDT	ug/L	0.10		U		0.096
MW-54R	Aldrin	ug/L	0.05		U		0.048
MW-54R	alpha-BHC	ug/L	0.05		U		0.048

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Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-54R	alpha-Chlordane	ug/L	0.05		U		0.048
MW-54R	Aroclor-1016	ug/L	1.0		U		0.96
MW-54R	Aroclor-1221	ug/L	2.0		U		1.9
MW-54R	Aroclor-1232	ug/L	1.0		U		0.96
MW-54R	Aroclor-1242	ug/L	1.0		U		0.96
MW-54R	Aroclor-1248	ug/L	1.0		U		0.96
MW-54R	Aroclor-1254	ug/L	1.0		U		0.96
MW-54R	Aroclor-1260	ug/L	1.0		U		0.96
MW-54R	beta-BHC	ug/L	0.05	0.012	JBP		0.005
MW-54R	delta-BHC	ug/L	0.05	0.0018	JB		0.005
MW-54R	Dieldrin	ug/L	0.10		U		0.096
MW-54R	Endosulfan I	ug/L	0.05		U		0.048
MW-54R	Endosulfan II	ug/L	0.10		U		0.096
MW-54R	Endosulfan sulfate	ug/L	0.10		U		0.096
MW-54R	Endrin	ug/L	0.10		U		0.096
MW-54R	Endrin aldehyde	ug/L	0.10		U		0.096
MW-54R	Endrin ketone	ug/L	0.10		U		0.096
MW-54R	gamma-BHC	ug/L	0.05		U		0.048
MW-54R	gamma-Chlordane	ug/L	0.05		U		0.048
MW-54R	Heptachlor	ug/L	0.05		U		0.048
MW-54R	Heptachlor epoxide	ug/L	0.05		U		0.048
MW-54R	Methoxychlor	ug/L	0.50		U		0.48
MW-54R	Toxaphene	ug/L	5.0		U		4.8
MW-55	4,4'-DDD	ug/L	0.10		U		0.099
MW-55	4,4'-DDE	ug/L	0.10		U		0.099
MW-55	4,4'-DDT	ug/L	0.10		U		0.099
MW-55	Aldrin	ug/L	0.05		U		0.05
MW-55	alpha-BHC	ug/L	0.05		U		0.05
MW-55	alpha-Chlordane	ug/L	0.05		U		0.05
MW-55	Aroclor-1016	ug/L	1.0		U		0.99
MW-55	Aroclor-1221	ug/L	2.0		U		2
MW-55	Aroclor-1232	ug/L	1.0		U		0.99
MW-55	Aroclor-1242	ug/L	1.0		U		0.99
MW-55	Aroclor-1248	ug/L	1.0		U		0.99
MW-55	Aroclor-1254	ug/L	1.0		U		0.99
MW-55	Aroclor-1260	ug/L	1.0		U		0.99
MW-55	beta-BHC	ug/L	0.05	0.016	JBP	JP	0.005
MW-55	delta-BHC	ug/L	0.05	0.0023	JBP	JP	0.005
MW-55	Dieldrin	ug/L	0.10		U		0.099
MW-55	Endosulfan I	ug/L	0.05		U		0.05
MW-55	Endosulfan II	ug/L	0.10		U		0.099
MW-55	Endosulfan sulfate	ug/L	0.10		U		0.099
MW-55	Endrin	ug/L	0.10		U		0.099
MW-55	Endrin aldehyde	ug/L	0.10		U		0.099
MW-55	Endrin ketone	ug/L	0.10		U		0.099
MW-55	gamma-BHC	ug/L	0.05		U		0.05

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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
MW-55	gamma-Chlordane	ug/L	0.05		U		0.05
MW-55	Heptachlor	ug/L	0.05		U		0.05
MW-55	Heptachlor epoxide	ug/L	0.05		U		0.05
MW-55	Methoxychlor	ug/L	0.50		U		0.5
MW-55	Toxaphene	ug/L	5.0		U		5

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Comparison of Results to Baseline Highest Detections
June 1999
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Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
ATMW-4D	Aluminum	UG/L		296		U	8.9
ATMW-4D	Antimony	UG/L			U		1
ATMW-4D	Arsenic	UG/L			U		1.4
ATMW-4D	Barium	UG/L		110	B		0.1
ATMW-4D	Beryllium	UG/L		0.29	B	U	0.1
ATMW-4D	Cadmium	UG/L		0.99	B		0.2
ATMW-4D	Calcium	UG/L		87,200			8.5
ATMW-4D	Chromium (Total)	UG/L		8.4	B		0.5
ATMW-4D	Cobalt	UG/L		0.97	B	U	0.4
ATMW-4D	Copper	UG/L		2.7	B	U	0.3
ATMW-4D	Cyanide (Total)	UG/L			U	U	4.7
ATMW-4D	Iron	UG/L		1,580			8.8
ATMW-4D	Lead	UG/L		2	B	U	1
ATMW-4D	Magnesium	UG/L		48,200			2.7
ATMW-4D	Manganese	UG/L		117			0.1
ATMW-4D	Mercury	UG/L			U		0.05
ATMW-4D	Nickel	UG/L		10.4	B	U	0.5
ATMW-4D	Potassium	UG/L		6,300	E		11.1
ATMW-4D	Selenium	UG/L			U		1.6
ATMW-4D	Silver	UG/L			U		0.4
ATMW-4D	Sodium	UG/L		62,500			101
ATMW-4D	Thallium	UG/L			U		2.1
ATMW-4D	Vanadium	UG/L			U		0.4
ATMW-4D	Zinc	UG/L			U		0.4
M-1S	Arsenic	UG/L	3.0		U		2
M-1S	Lead	UG/L	2.5		U		1
M-4D	Arsenic	UG/L	2.5		U		2
M-4D	Lead	UG/L	3.1		U		1
M-4S	Aluminum	UG/L	1,120	83.9	B	J	33.2
M-4S	Antimony	UG/L	2.0	**3.2**	B	J	1.8
M-4S	Arsenic	UG/L	6.8	2.7	B	J	2
M-4S	Barium	UG/L	737	589			0.2
M-4S	Beryllium	UG/L	1.2	0.44	B	J	0.1
M-4S	Cadmium	UG/L	1.0	**1.8**	B	J	0.5
M-4S	Calcium	UG/L	397,000	350,000			10.7
M-4S	Chromium (Total)	UG/L	68	6.2	B	J	0.9
M-4S	Cobalt	UG/L	8.2	6	B	J	0.6
M-4S	Copper	UG/L	11		U	J	1.1
M-4S	Cyanide (Total)	UG/L	10		U		4.7
M-4S	Iron	UG/L	39,500	33,500			18.9
M-4S	Lead	UG/L	6.1		U		1
M-4S	Magnesium	UG/L	57,300	42,900			7.7
M-4S	Manganese	UG/L	582	399			0.1
M-4S	Mercury	UG/L	0.20		U	UJ	0.05
M-4S	Nickel	UG/L	75	11.5	B	J	1
M-4S	Potassium	UG/L	23,000	18,800	E	J	61.8

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Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
M-4S	Selenium	UG/L	2.0	**3.1**	UN		3.1
M-4S	Silver	UG/L	1.0		U		0.3
M-4S	Sodium	UG/L	130,000	99,400			212
M-4S	Thallium	UG/L	3.0		U		4.1
M-4S	Vanadium	UG/L	3.9	2.9	B	J	0.6
M-4S	Zinc	UG/L	30	2.5	B*	J	1.1
MW-06	Aluminum	UG/L	180	41.3	B	J	33.2
MW-06	Antimony	UG/L	2.1	**3.2**	B	J	1.8
MW-06	Arsenic	UG/L	72	17.9			2
MW-06	Barium	UG/L	369	269			0.2
MW-06	Beryllium	UG/L	1.0	0.25	B	J	0.1
MW-06	Cadmium	UG/L	1.0	**2.1**	B	J	0.5
MW-06	Calcium	UG/L	216,000	**260,000**			10.7
MW-06	Chromium (Total)	UG/L	33	8.1	B	J	0.9
MW-06	Cobalt	UG/L	3.6	2.4	B	J	0.6
MW-06	Copper	UG/L	52	3.7	B	J	1.1
MW-06	Cyanide (Total)	UG/L	17	12.8			4.7
MW-06	Iron	UG/L	16,500	7,780			18.9
MW-06	Lead	UG/L	9.6		U		1
MW-06	Magnesium	UG/L	37,600	**45,700**			7.7
MW-06	Manganese	UG/L	2,900	1,050			0.1
MW-06	Mercury	UG/L	0.20		U	UJ	0.05
MW-06	Nickel	UG/L	39	20.2	B	J	1
MW-06	Potassium	UG/L	27,400	16,500	E	J	61.8
MW-06	Selenium	UG/L	2.0	**3.1**	UN		3.1
MW-06	Silver	UG/L	1.0		U		0.3
MW-06	Sodium	UG/L	449,000	233,000			212
MW-06	Thallium	UG/L	3.6		U		4.1
MW-06	Vanadium	UG/L	3.8	0.68	B	J	0.6
MW-06	Zinc	UG/L	27	2.3	B*	J	1.1
MW-07	Arsenic	UG/L	3.5		U		2
MW-07	Lead	UG/L	5.8		U		1
MW-08	Aluminum	UG/L	839	88.5	B	U	8.9
MW-08	Antimony	UG/L	2.0		U		1
MW-08	Arsenic	UG/L	6.1		U		1.4
MW-08	Barium	UG/L	128	121	B		0.1
MW-08	Beryllium	UG/L	1.0	0.26	B	U	0.1
MW-08	Cadmium	UG/L	1.0	0.35	B		0.2
MW-08	Calcium	UG/L	58,300	52,200			8.5
MW-08	Chromium (Total)	UG/L	37	3.5	B		0.5
MW-08	Cobalt	UG/L	1.8	1.1	B	U	0.4
MW-08	Copper	UG/L	7.3	1.7	B	U	0.3
MW-08	Cyanide (Total)	UG/L	10		U		4.7
MW-08	Iron	UG/L	3,420	1,720			8.8
MW-08	Lead	UG/L	3.4	1.5	B	U	1
MW-08	Magnesium	UG/L	18,600	17,400			2.7

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				Result	LQ	DQ	Detect Limit
MW-08	Manganese	UG/L	173	100			0.1
MW-08	Mercury	UG/L	0.20		U		0.05
MW-08	Nickel	UG/L	23		U	U	0.5
MW-08	Potassium	UG/L	1,540	862	BE		11.1
MW-08	Selenium	UG/L	2.0		U		1.6
MW-08	Silver	UG/L	1.0		U		0.4
MW-08	Sodium	UG/L	13,500	**14,200**			101
MW-08	Thallium	UG/L	3.0		U		2.1
MW-08	Vanadium	UG/L	2.0		U		0.4
MW-08	Zinc	UG/L	34	0.97	B	U	0.4
MW-09R	Aluminum	UG/L	2,580	296			33.2
MW-09R	Antimony	UG/L	2.0		U		1.8
MW-09R	Arsenic	UG/L	6.8	2	B	J	2
MW-09R	Barium	UG/L	349	230			0.2
MW-09R	Beryllium	UG/L	1.0	0.36	B	J	0.1
MW-09R	Cadmium	UG/L	2.4	0.92	B	J	0.5
MW-09R	Calcium	UG/L	159,000	119,000			10.7
MW-09R	Chromium (Total)	UG/L	45	25.9			0.9
MW-09R	Cobalt	UG/L	9.3	3.3	B	J	0.6
MW-09R	Copper	UG/L	24	5.7	B	J	1.1
MW-09R	Cyanide (Total)	UG/L	10		U		4.7
MW-09R	Iron	UG/L	20,700	4,980			18.9
MW-09R	Lead	UG/L	6.7		U		1
MW-09R	Magnesium	UG/L	33,000	16,400			7.7
MW-09R	Manganese	UG/L	249	199			0.1
MW-09R	Mercury	UG/L	0.67		U	UJ	0.05
MW-09R	Nickel	UG/L	38	18.2	B	J	1
MW-09R	Potassium	UG/L	11,150	7,790	E	J	61.8
MW-09R	Selenium	UG/L	2.0	**3.1**	UN		3.1
MW-09R	Silver	UG/L	1.0		U		0.3
MW-09R	Sodium	UG/L	110,000	37,400			212
MW-09R	Thallium	UG/L	3.0		U		4.1
MW-09R	Vanadium	UG/L	9.6	2.5	B	J	0.6
MW-09R	Zinc	UG/L	41	20.6	*	J	1.1
MW-10C	Aluminum	UG/L	6,990	384			33.2
MW-10C	Antimony	UG/L	2.8	2.1	B	J	1.8
MW-10C	Arsenic	UG/L	10		U		2
MW-10C	Barium	UG/L	372	333			0.2
MW-10C	Beryllium	UG/L	1.3	0.33	B	J	0.1
MW-10C	Cadmium	UG/L	1.0		U		0.5
MW-10C	Calcium	UG/L	141,000	103,000			10.7
MW-10C	Chromium (Total)	UG/L	360	15.4			0.9
MW-10C	Cobalt	UG/L	14	2.7	B	J	0.6
MW-10C	Copper	UG/L	46	3.6	B	J	1.1
MW-10C	Cyanide (Total)	UG/L	10	7.4	B	J	4.7
MW-10C	Iron	UG/L	21,300	8,520			18.9

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				Result	LQ	DQ	Detect Limit
MW-10C	Lead	UG/L	19		U		1
MW-10C	Magnesium	UG/L	65,900	52,200			7.7
MW-10C	Manganese	UG/L	447	74			0.1
MW-10C	Mercury	UG/L	0.20		U	UJ	0.05
MW-10C	Nickel	UG/L	257	13.4	B	J	1
MW-10C	Potassium	UG/L	7,460	3,630	BE	J	61.8
MW-10C	Selenium	UG/L	2.0	**3.1**	UN		3.1
MW-10C	Silver	UG/L	1.0		U		0.3
MW-10C	Sodium	UG/L	193,000	186,000			212
MW-10C	Thallium	UG/L	3.0		U		4.1
MW-10C	Vanadium	UG/L	15	2	B	J	0.6
MW-10C	Zinc	UG/L	119	5.1	B*	J	1.1
MW-11	Arsenic	UG/L	2.0	**4.2**	B	B	2
MW-11	Lead	UG/L	7.9	1.7	B	B	1
MW-12	Arsenic	UG/L	7.8		U		1.4
MW-12	Lead	UG/L	12	1.6	B	U	1
MW-13	Aluminum	UG/L	427	50.2	B	J	33.2
MW-13	Antimony	UG/L	2.0		U		1.8
MW-13	Arsenic	UG/L	2.0	**2.2**	B	J	2
MW-13	Barium	UG/L	69	**83.2**	B	J	0.2
MW-13	Beryllium	UG/L	1.0	0.19	B	JB	0.1
MW-13	Cadmium	UG/L	1.0	**1.2**	B	J	0.5
MW-13	Calcium	UG/L	130,000	16,500			10.7
MW-13	Chromium (Total)	UG/L	4.2		U		0.9
MW-13	Cobalt	UG/L	1.9		U		0.6
MW-13	Copper	UG/L	5.9		U		1.1
MW-13	Cyanide (Total)	UG/L	10		U		4.7
MW-13	Iron	UG/L	6,090	**7,620**			18.9
MW-13	Lead	UG/L	2.3		U		1
MW-13	Magnesium	UG/L	37,000	**48,900**			7.7
MW-13	Manganese	UG/L	674	**813**			0.1
MW-13	Mercury	UG/L	0.20		U	UJ	0.02
MW-13	Nickel	UG/L	4.3	1.4	B	J	1
MW-13	Potassium	UG/L	2,940	1,720	BE	JB	61.8
MW-13	Selenium	UG/L	2.0		U		3.1
MW-13	Silver	UG/L	1.0		U		0.3
MW-13	Sodium	UG/L	35,700	26,100			212
MW-13	Thallium	UG/L	3.0		U		4.1
MW-13	Vanadium	UG/L	1.8	0.89	B	J	0.6
MW-13	Zinc	UG/L	17	2	B	J	1.1
MW-14	Aluminum	UG/L	13,800	8,300			33.2
MW-14	Antimony	UG/L	2.3	**2.9**	B	J	1.8
MW-14	Arsenic	UG/L	11	**67.2**			2
MW-14	Barium	UG/L	122	119	B	J	0.2
MW-14	Beryllium	UG/L	1.0	0.93	B	J	0.1
MW-14	Cadmium	UG/L	1.0		U		0.5

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Comparison of Results to Baseline Highest Detections
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American Chemical Services NPL Site
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Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-14	Calcium	UG/L	142,000	54,400			10.7
MW-14	Chromium (Total)	UG/L	36	**185**			0.9
MW-14	Cobalt	UG/L	12	**24.7**	B	J	0.6
MW-14	Copper	UG/L	32	**33.8**			1.1
MW-14	Cyanide (Total)	UG/L	10		U		4.7
MW-14	Iron	UG/L	33,000	**98,700**			18.9
MW-14	Lead	UG/L	20	5.2			1
MW-14	Magnesium	UG/L	26,200	12,700			7.7
MW-14	Manganese	UG/L	831	787			0.1
MW-14	Mercury	UG/L	0.20		U	UJ	0.05
MW-14	Nickel	UG/L	29	**128**			1
MW-14	Potassium	UG/L	12,500	5,050	E	J	61.8
MW-14	Selenium	UG/L	2.3	**6.6**	N	J	3.1
MW-14	Silver	UG/L	1.0		U		0.3
MW-14	Sodium	UG/L	37,900	16,400			212
MW-14	Thallium	UG/L	3.0	**10.9**			4.1
MW-14	Vanadium	UG/L	34	**98.2**			0.6
MW-14	Zinc	UG/L	63	44.5	*	J	1.1
MW-15	Aluminum	UG/L	487	237			33.2
MW-15	Antimony	UG/L	2.0		U		1.8
MW-15	Arsenic	UG/L	59	49.7			2
MW-15	Barium	UG/L	1,470	1,210			0.2
MW-15	Beryllium	UG/L	1.0	0.47	B	J	0.1
MW-15	Cadmium	UG/L	1.0		U		0.5
MW-15	Calcium	UG/L	94,100	52,100			10.7
MW-15	Chromium (Total)	UG/L	13	4.1	B	J	0.9
MW-15	Cobalt	UG/L	5.1	**5.5**	B	J	0.6
MW-15	Copper	UG/L	26	3	B	J	1.1
MW-15	Cyanide (Total)	UG/L	10		U		4.7
MW-15	Iron	UG/L	7,900	4,180			18.9
MW-15	Lead	UG/L	2.4		U		1
MW-15	Magnesium	UG/L	93,100	61,700			7.7
MW-15	Manganese	UG/L	534	171			0.1
MW-15	Mercury	UG/L	0.20		U	UJ	0.05
MW-15	Nickel	UG/L	24	19.8	B	J	1
MW-15	Potassium	UG/L	122,000	**124,000**	E	J	61.8
MW-15	Selenium	UG/L	2.0	**3.1**	UN		3.1
MW-15	Silver	UG/L	1.0		U		0.3
MW-15	Sodium	UG/L	459,000	**495,000**			212
MW-15	Thallium	UG/L	3.1		U		4.1
MW-15	Vanadium	UG/L	1.5	**1.9**	B	J	0.6
MW-15	Zinc	UG/L	44	2.1	B*	J	1.1
MW-18	Aluminum	UG/L	56	13.3	B	U	8.9
MW-18	Antimony	UG/L	2.0	**3.3**	B	U	1
MW-18	Arsenic	UG/L	2.4		U		1.4
MW-18	Barium	UG/L	35	28.3	B		0.1

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				Result	LQ	DQ	Detect Limit
MW-18	Beryllium	UG/L	1.0		U		0.1
MW-18	Cadmium	UG/L	1.0	0.94	B	U	0.2
MW-18	Calcium	UG/L	88,500	61,400			8.5
MW-18	Chromium (Total)	UG/L	71	3.7	B		0.5
MW-18	Cobalt	UG/L	1.1	**2.5**	B	U	0.4
MW-18	Copper	UG/L	13	3.2	B	U	0.3
MW-18	Cyanide (Total)	UG/L	10		U		4.7
MW-18	Iron	UG/L	288	53.5	B		8.8
MW-18	Lead	UG/L	14		U		1
MW-18	Magnesium	UG/L	28,500	20,700			2.7
MW-18	Manganese	UG/L	609	61			0.1
MW-18	Mercury	UG/L	0.20		U		0.05
MW-18	Nickel	UG/L	6.2		U		0.5
MW-18	Potassium	UG/L	3,850	1,930	BE		11.1
MW-18	Selenium	UG/L	3.9		U		1.6
MW-18	Silver	UG/L	1.0		U		0.4
MW-18	Sodium	UG/L	67,700	38,800			101
MW-18	Thallium	UG/L	3.0		U		2.1
MW-18	Vanadium	UG/L	1.5	1.1	B	U	0.4
MW-18	Zinc	UG/L	67		U		0.4
MW-19	Aluminum	UG/L	421	64.6	B	J	33.2
MW-19	Antimony	UG/L	2.0		U		1.8
MW-19	Arsenic	UG/L	27	7.7	B	J	2
MW-19	Barium	UG/L	673	**764**			0.2
MW-19	Beryllium	UG/L	1.0	0.25	B	J	0.1
MW-19	Cadmium	UG/L	1.0		U		0.5
MW-19	Calcium	UG/L	85,300	84,800			10.7
MW-19	Chromium (Total)	UG/L	10	3.6	B	J	0.9
MW-19	Cobalt	UG/L	2.3	1.4	B	J	0.6
MW-19	Copper	UG/L	184	2.3	B	J	1.1
MW-19	Cyanide (Total)	UG/L	10	5.1	B	J	4.7
MW-19	Iron	UG/L	4,810	2,490			18.9
MW-19	Lead	UG/L	3.7		U		1
MW-19	Magnesium	UG/L	67,700	56,200			7.7
MW-19	Manganese	UG/L	268	206			0.1
MW-19	Mercury	UG/L	0.20		U	UJ	0.05
MW-19	Nickel	UG/L	19	16.2	B	J	1
MW-19	Potassium	UG/L	114,000	92,400	E	J	61.8
MW-19	Selenium	UG/L	2.0	**3.1**	UN		3.1
MW-19	Silver	UG/L	1.0		U		0.3
MW-19	Sodium	UG/L	975,000	938,000			212
MW-19	Thallium	UG/L	4.7		U		4.1
MW-19	Vanadium	UG/L	1.6	0.73	B	J	0.6
MW-19	Zinc	UG/L	16	1.1	U*		1.1
MW-23	Aluminum	UG/L	2,480	1,120			33.2
MW-23	Antimony	UG/L	2.0	**2.3**	B	B	1.8

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Comparison of Results to Baseline Highest Detections
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Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-23	Arsenic	UG/L	5.3		U		2
MW-23	Barium	UG/L	140	116	B	B	0.2
MW-23	Beryllium	UG/L	1.0	0.37	B	B	0.1
MW-23	Cadmium	UG/L	1.0		U		0.5
MW-23	Calcium	UG/L	86,500	74,200			10.7
MW-23	Chromium (Total)	UG/L	19	11			0.9
MW-23	Cobalt	UG/L	4.7	1.1	B	B	0.6
MW-23	Copper	UG/L	20	4.7	B	B	1.1
MW-23	Cyanide (Total)	UG/L	10		U	UJ	4.7
MW-23	Iron	UG/L	11,700	8,830			18.9
MW-23	Lead	UG/L	7.7	2.9	B	B	1
MW-23	Magnesium	UG/L	23,800	22,600			7.7
MW-23	Manganese	UG/L	377	295			0.1
MW-23	Mercury	UG/L	0.20		U	UJ	0.05
MW-23	Nickel	UG/L	20	10.6	B	B	1
MW-23	Potassium	UG/L	4,350	2,220	B	B	61.8
MW-23	Selenium	UG/L	2.0		U		3.1
MW-23	Silver	UG/L	1.0		U		0.3
MW-23	Sodium	UG/L	75,300	64,200			212
MW-23	Thallium	UG/L	3.0		U		4.1
MW-23	Vanadium	UG/L	7.1	3.3	B	B	0.6
MW-23	Zinc	UG/L	33	8.6	B	J	1.1
MW-24	Aluminum	UG/L	14,800	157	B	B	33.2
MW-24	Antimony	UG/L	2.0	**3.7**	B	B	1.8
MW-24	Arsenic	UG/L	10		U		2
MW-24	Barium	UG/L	386	199	B	B	0.2
MW-24	Beryllium	UG/L	1.6	0.18	B	B	0.1
MW-24	Cadmium	UG/L	1.0	0.84	B	B	0.5
MW-24	Calcium	UG/L	170,000	110,000			10.7
MW-24	Chromium (Total)	UG/L	143	5.1	B	B	0.9
MW-24	Cobalt	UG/L	14		U		0.6
MW-24	Copper	UG/L	94	2.9	B	B	1.1
MW-24	Cyanide (Total)	UG/L	10	8.1	B	JB	4.7
MW-24	Iron	UG/L	51,500	4,980			18.9
MW-24	Lead	UG/L	25		U		1
MW-24	Magnesium	UG/L	51,800	28,700			7.7
MW-24	Manganese	UG/L	696	231			0.1
MW-24	Mercury	UG/L	0.20		U	UJ	0.05
MW-24	Nickel	UG/L	96	4	B	B	1
MW-24	Potassium	UG/L	9,750	1,130	B	B	61.8
MW-24	Selenium	UG/L	2.6		U		3.1
MW-24	Silver	UG/L	1.0		U		0.3
MW-24	Sodium	UG/L	95,600	**106,000**			212
MW-24	Thallium	UG/L	4.0		U		4.1
MW-24	Vanadium	UG/L	30	0.93	B	B	0.6
MW-24	Zinc	UG/L	97	1.5	B	J	1.1

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Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
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Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-28	Aluminum	UG/L	2,850	265		U	8.9
MW-28	Antimony	UG/L	2.0		U		1
MW-28	Arsenic	UG/L	4.9		U		1.4
MW-28	Barium	UG/L	131	125	B		0.1
MW-28	Beryllium	UG/L	1.1		U		0.1
MW-28	Cadmium	UG/L	1.0	0.6	B	U	0.2
MW-28	Calcium	UG/L	96,800	83,500			8.5
MW-28	Chromium (Total)	UG/L	108	32.9			0.5
MW-28	Cobalt	UG/L	6.4	3.1	B	U	0.4
MW-28	Copper	UG/L	55	12.9	B	U	0.3
MW-28	Cyanide (Total)	UG/L	10		U		4.7
MW-28	Iron	UG/L	7,090	2,900			8.8
MW-28	Lead	UG/L	12	4.2		U	1
MW-28	Magnesium	UG/L	41,400	40,700			2.7
MW-28	Manganese	UG/L	169	74.5			0.1
MW-28	Mercury	UG/L	0.20		U		0.05
MW-28	Nickel	UG/L	74	26	B		0.5
MW-28	Potassium	UG/L	3,580	1,730	BE		11.1
MW-28	Selenium	UG/L	2.0		U		1.6
MW-28	Silver	UG/L	1.0		U		0.4
MW-28	Sodium	UG/L	16,400	**19,100**			101
MW-28	Thallium	UG/L	3.0		U		2.1
MW-28	Vanadium	UG/L	7.1		U		0.4
MW-28	Zinc	UG/L	49	4.6	B	U	0.4
MW-29	Aluminum	UG/L	635	231			33.2
MW-29	Antimony	UG/L	2.0	**60.2**			1.8
MW-29	Arsenic	UG/L	2.9		U		2
MW-29	Barium	UG/L	140	116	B	J	0.2
MW-29	Beryllium	UG/L	1.0	0.29	B	J	0.1
MW-29	Cadmium	UG/L	1.0	0.6	B	J	0.5
MW-29	Calcium	UG/L	115,000	85,000			10.7
MW-29	Chromium (Total)	UG/L	24	**30.1**			0.9
MW-29	Cobalt	UG/L	2.6	1.1	B	J	0.6
MW-29	Copper	UG/L	15	8.1	B	J	1.1
MW-29	Cyanide (Total)	UG/L	10		U	UJ	4.7
MW-29	Iron	UG/L	7,410	4,430			18.9
MW-29	Lead	UG/L	2.4		U		1
MW-29	Magnesium	UG/L	55,700	41,700			7.7
MW-29	Manganese	UG/L	218	66.7			0.1
MW-29	Mercury	UG/L	0.20		U	UJ	0.05
MW-29	Nickel	UG/L	31	**51**			1
MW-29	Potassium	UG/L	7,040	2,760	B	J	61.8
MW-29	Selenium	UG/L	2.0		U		3.1
MW-29	Silver	UG/L	1.0	0.45	B	J	0.3
MW-29	Sodium	UG/L	76,100	74,800			212
MW-29	Thallium	UG/L	3.0		U		4.1

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				Result	LQ	DQ	Detect Limit
MW-29	Vanadium	UG/L	1.8	1.2	B	J	0.6
MW-29	Zinc	UG/L	22	5.6	B	J	1.1
MW-30	Aluminum	UG/L	1,830	109	B	J	33.2
MW-30	Antimony	UG/L	2.0	**2.6**	B	J	1.8
MW-30	Arsenic	UG/L	4.3		U		2
MW-30	Barium	UG/L	210	**228**			0.2
MW-30	Beryllium	UG/L	1.0	0.24	B	J	0.1
MW-30	Cadmium	UG/L	1.0	0.56	B	J	0.5
MW-30	Calcium	UG/L	170,000	89,400			10.7
MW-30	Chromium (Total)	UG/L	50	3.9	B	J	0.9
MW-30	Cobalt	UG/L	15	5.3	B	J	0.6
MW-30	Copper	UG/L	40	4.4	B	J	1.1
MW-30	Cyanide (Total)	UG/L	10		U	UJ	4.7
MW-30	Iron	UG/L	8,590	1,600			18.9
MW-30	Lead	UG/L	8.0		U		1
MW-30	Magnesium	UG/L	51,000	47,100			7.7
MW-30	Manganese	UG/L	240	59.9			0.1
MW-30	Mercury	UG/L	0.20		U	UJ	0.05
MW-30	Nickel	UG/L	59	10.6	B	J	1
MW-30	Potassium	UG/L	4,980	2,230	B	J	61.8
MW-30	Selenium	UG/L	2.0		U		3.1
MW-30	Silver	UG/L	1.0		U		0.3
MW-30	Sodium	UG/L	40,900	**49,600**			212
MW-30	Thallium	UG/L	3.0		U		4.1
MW-30	Vanadium	UG/L	3.8		U		0.6
MW-30	Zinc	UG/L	40	2.3	B	J	1.1
MW-31	Aluminum	UG/L	1,890	34.5	B	U	8.9
MW-31	Antimony	UG/L	2.7		U		1
MW-31	Arsenic	UG/L	7.5	3.5	B	U	1.4
MW-31	Barium	UG/L	246	**272**			0.1
MW-31	Beryllium	UG/L	1.0		U		0.1
MW-31	Cadmium	UG/L	1.0	0.53	B		0.2
MW-31	Calcium	UG/L	96,400	88,200			8.5
MW-31	Chromium (Total)	UG/L	89	8	B		0.5
MW-31	Cobalt	UG/L	4.3	1.4	B	U	0.4
MW-31	Copper	UG/L	52	15	B		0.3
MW-31	Cyanide (Total)	UG/L	10		U		4.7
MW-31	Iron	UG/L	6,230	2,900			8.8
MW-31	Lead	UG/L	8.9	2.6	B	U	1
MW-31	Magnesium	UG/L	35,100	**35,600**			2.7
MW-31	Manganese	UG/L	174	89.2			0.1
MW-31	Mercury	UG/L	0.20		U		0.05
MW-31	Nickel	UG/L	66	8.2	B	U	0.5
MW-31	Potassium	UG/L	3,870	1,480	BE		11.1
MW-31	Selenium	UG/L	2.0		U		1.6
MW-31	Silver	UG/L	1.0		U		0.4

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Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-31	Sodium	UG/L	19,800	**21,700**			101
MW-31	Thallium	UG/L	3.0		U		2.1
MW-31	Vanadium	UG/L	4.3		U		0.4
MW-31	Zinc	UG/L	38	1.3	B	U	0.4
MW-32	Aluminum	UG/L	10,500	27.7	B	U	8.9
MW-32	Antimony	UG/L	2.0		U		1
MW-32	Arsenic	UG/L	4.9		U		1.4
MW-32	Barium	UG/L	258	243			0.1
MW-32	Beryllium	UG/L	1.5	0.23	B	U	0.1
MW-32	Cadmium	UG/L	1.0	0.56	B		0.2
MW-32	Calcium	UG/L	77,700	71,100			8.5
MW-32	Chromium (Total)	UG/L	149	3	B		0.5
MW-32	Cobalt	UG/L	3.2	0.92	B	U	0.4
MW-32	Copper	UG/L	30	1.7	B	U	0.3
MW-32	Cyanide (Total)	UG/L	10		U		4.7
MW-32	Iron	UG/L	14,600	2,690			8.8
MW-32	Lead	UG/L	11	1.2	B	U	1
MW-32	Magnesium	UG/L	48,000	**49,300**			2.7
MW-32	Manganese	UG/L	219	29.3			0.1
MW-32	Mercury	UG/L	0.20		U		0.05
MW-32	Nickel	UG/L	96	0.57	B	U	0.5
MW-32	Potassium	UG/L	5,560	3,300	BE		11.1
MW-32	Selenium	UG/L	2.0		U		1.6
MW-32	Silver	UG/L	1.0		U		0.4
MW-32	Sodium	UG/L	55,000	39,500			101
MW-32	Thallium	UG/L	3.0		U		2.1
MW-32	Vanadium	UG/L	5.6		U		0.4
MW-32	Zinc	UG/L	47		U		0.4
MW-33	Aluminum	UG/L	195	90.2	B	J	33.2
MW-33	Antimony	UG/L	2.0	**2.3**	B	J	1.8
MW-33	Arsenic	UG/L	23	16.7			2
MW-33	Barium	UG/L	1,340	1,060			0.2
MW-33	Beryllium	UG/L	1.0	0.4	B	J	0.1
MW-33	Cadmium	UG/L	1.4	**1.5**	B	J	0.5
MW-33	Calcium	UG/L	313,000	242,000			10.7
MW-33	Chromium (Total)	UG/L	15	5	B	J	0.9
MW-33	Cobalt	UG/L	6.1	2.9	B	J	0.6
MW-33	Copper	UG/L	15	4.7	B	J	1.1
MW-33	Cyanide (Total)	UG/L	10		U	UJ	4.7
MW-33	Iron	UG/L	28,500	22,400			18.9
MW-33	Lead	UG/L	1.5		U		1
MW-33	Magnesium	UG/L	70,500	54,900			7.7
MW-33	Manganese	UG/L	686	75.4			0.1
MW-33	Mercury	UG/L	0.20		U	UJ	0.05
MW-33	Nickel	UG/L	48	9.2	B	J	1
MW-33	Potassium	UG/L	15,800	10,500			61.8

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Comparison of Results to Baseline Highest Detections
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American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-33	Selenium	UG/L	2.0		U		3.1
MW-33	Silver	UG/L	1.0	0.46	B	J	0.3
MW-33	Sodium	UG/L	195,000	170,000			212
MW-33	Thallium	UG/L	3.8		U		4.1
MW-33	Vanadium	UG/L	1.8	0.94	B	J	0.6
MW-33	Zinc	UG/L	27	1.4	B	J	1.1
MW-34	Aluminum	UG/L	1,140	119	B	J	33.2
MW-34	Antimony	UG/L	2.1		U		1.8
MW-34	Arsenic	UG/L	2.8		U		2
MW-34	Barium	UG/L	176	**187**	B	J	0.2
MW-34	Beryllium	UG/L	1.0		U		0.1
MW-34	Cadmium	UG/L	1.0	0.58	B	J	0.5
MW-34	Calcium	UG/L	85,700	77,600			10.7
MW-34	Chromium (Total)	UG/L	38	13.8			0.9
MW-34	Cobalt	UG/L	2.4	0.7	B	JB	0.6
MW-34	Copper	UG/L	24	7.7	B	JB	1.1
MW-34	Iron	UG/L	4,360	3,070			18.9
MW-34	Lead	UG/L	3.8	1.1	B	J	1
MW-34	Magnesium	UG/L	51,000	**53,400**			7.7
MW-34	Manganese	UG/L	138	19.6			0.1
MW-34	Mercury	UG/L	0.20		U	UJ	0.02
MW-34	Nickel	UG/L	34	12.3	B	J	1
MW-34	Potassium	UG/L	5,810	3,820	BE	JB	61.8
MW-34	Selenium	UG/L	2.0		U		3.1
MW-34	Silver	UG/L	1.0		U		0.3
MW-34	Sodium	UG/L	37,200	35,100			212
MW-34	Thallium	UG/L	3.0		U		4.1
MW-34	Vanadium	UG/L	1.1		U		0.6
MW-34	Zinc	UG/L	30	5.6	B	J	1.1
MW-37	Aluminum	UG/L	1,410	388			33.2
MW-37	Antimony	UG/L	2.0		U		1.8
MW-37	Arsenic	UG/L	2.5		U		2
MW-37	Barium	UG/L	34	24.2	B	J	0.2
MW-37	Beryllium	UG/L	1.0	0.37	B	J	0.1
MW-37	Cadmium	UG/L	1.0		U		0.5
MW-37	Calcium	UG/L	85,600	74,400			10.7
MW-37	Chromium (Total)	UG/L	10	3.7	B	J	0.9
MW-37	Cobalt	UG/L	10	0.99	B	J	0.6
MW-37	Copper	UG/L	21	7.1	B	J	1.1
MW-37	Cyanide (Total)	UG/L	10	6.8	B	J	4.7
MW-37	Iron	UG/L	9,665	4,870			18.9
MW-37	Lead	UG/L	8.6	1.3	B	J	1
MW-37	Magnesium	UG/L	26,850	23,100			7.7
MW-37	Manganese	UG/L	694	330			0.1
MW-37	Mercury	UG/L	0.20		U	UJ	0.05
MW-37	Nickel	UG/L	20	8.2	B	J	1

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Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-37	Potassium	UG/L	2,025	1,120	B	J	61.8
MW-37	Selenium	UG/L	2.0		U		3.1
MW-37	Silver	UG/L	10		U		0.3
MW-37	Sodium	UG/L	17,500	15,200			212
MW-37	Thallium	UG/L	3.0		U		4.1
MW-37	Vanadium	UG/L	20	1.7	B	J	0.6
MW-37	Zinc	UG/L	23	2.7	B	J	1.1
MW-38	Aluminum	UG/L	1,280	68.4	B	U	8.9
MW-38	Antimony	UG/L	2.0	1.3	B	U	1
MW-38	Arsenic	UG/L	5.6		U		1.4
MW-38	Barium	UG/L	54	33	B		0.1
MW-38	Beryllium	UG/L	1.0		U		0.1
MW-38	Cadmium	UG/L	1.0	0.45	B	U	0.2
MW-38	Calcium	UG/L	63,500	58,500			8.5
MW-38	Chromium (Total)	UG/L	12	2.3	B		0.5
MW-38	Cobalt	UG/L	10	5.4	B	U	0.4
MW-38	Copper	UG/L	14	13.4	B	U	0.3
MW-38	Cyanide (Total)	UG/L	10		U		4.7
MW-38	Iron	UG/L	16,200	2,960			8.8
MW-38	Lead	UG/L	10	1.3	B	U	1
MW-38	Magnesium	UG/L	22,000	21,500			2.7
MW-38	Manganese	UG/L	1,270	720			0.1
MW-38	Mercury	UG/L	0.20		U		0.05
MW-38	Nickel	UG/L	22	11.7	B	U	0.5
MW-38	Potassium	UG/L	959	449	BE		11.1
MW-38	Selenium	UG/L	2.0		U		1.6
MW-38	Silver	UG/L	10		U		0.4
MW-38	Sodium	UG/L	7,380	7,020			101
MW-38	Thallium	UG/L	3.0		U		2.1
MW-38	Vanadium	UG/L	20	2.9	B		0.4
MW-38	Zinc	UG/L	73	21		U	0.4
MW-39	Aluminum	UG/L	520	25	B	U	8.9
MW-39	Antimony	UG/L	2.0		U		1
MW-39	Arsenic	UG/L	4.3		U		1.4
MW-39	Barium	UG/L	95	77.3	B		0.1
MW-39	Beryllium	UG/L	1.0	0.12	B	U	0.1
MW-39	Cadmium	UG/L	1.0	0.74	B	U	0.2
MW-39	Calcium	UG/L	125,000	103,000			8.5
MW-39	Chromium (Total)	UG/L	12	0.83	B		0.5
MW-39	Cobalt	UG/L	10	1.2	B	U	0.4
MW-39	Copper	UG/L	16	0.63	B	U	0.3
MW-39	Cyanide (Total)	UG/L	10		U		4.7
MW-39	Iron	UG/L	17,300	6,640			8.8
MW-39	Lead	UG/L	3.5	1	B	U	1
MW-39	Magnesium	UG/L	22,300	18,700			2.7
MW-39	Manganese	UG/L	1,060	714			0.1

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Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-39	Mercury	UG/L	0.20		U		0.05
MW-39	Nickel	UG/L	712		U		0.5
MW-39	Potassium	UG/L	8,190	5,280	E		11.1
MW-39	Selenium	UG/L	2.0		U		1.6
MW-39	Silver	UG/L	10		U		0.4
MW-39	Sodium	UG/L	123,000	**154,000**			101
MW-39	Thallium	UG/L	3.0		U		2.1
MW-39	Vanadium	UG/L	20	0.48	B	U	0.4
MW-39	Zinc	UG/L	36		U		0.4
MW-40	Arsenic	UG/L	3.8		U		1.4
MW-40	Lead	UG/L	11	3.4		U	1
MW-41	Aluminum	UG/L	1,040	99.2	B	U	8.9
MW-41	Antimony	UG/L	2.0	1.4	B	U	1
MW-41	Arsenic	UG/L	3.0		U		1.4
MW-41	Barium	UG/L	31	17.6	B		0.1
MW-41	Beryllium	UG/L	1.0		U		0.1
MW-41	Cadmium	UG/L	1.0	0.29	B		0.2
MW-41	Calcium	UG/L	55,200	41,400			8.5
MW-41	Chromium (Total)	UG/L	10	8.6	B		0.5
MW-41	Cobalt	UG/L	10	1.7	B	U	0.4
MW-41	Copper	UG/L	16	4.2	B	U	0.3
MW-41	Cyanide (Total)	UG/L	10		U		4.7
MW-41	Iron	UG/L	1,670	187			8.8
MW-41	Lead	UG/L	13	1.3	B	U	1
MW-41	Magnesium	UG/L	18,500	13,900			2.7
MW-41	Manganese	UG/L	414	16.3			0.1
MW-41	Mercury	UG/L	0.20		U		0.05
MW-41	Nickel	UG/L	20	4.7	B	U	0.5
MW-41	Potassium	UG/L	964	279	BE		11.1
MW-41	Selenium	UG/L	2.0		U		1.6
MW-41	Silver	UG/L	10		U		0.4
MW-41	Sodium	UG/L	9,560	8,350			101
MW-41	Thallium	UG/L	3.0		U		2.1
MW-41	Vanadium	UG/L	20		U		0.4
MW-41	Zinc	UG/L	32		U		0.4
MW-42	Aluminum	UG/L	1,880		U		8.9
MW-42	Antimony	UG/L	2.0	**26.2**	B		1
MW-42	Arsenic	UG/L	15	2.3	B	U	1.4
MW-42	Barium	UG/L	97	65.4	B		0.1
MW-42	Beryllium	UG/L	1.0		U		0.1
MW-42	Cadmium	UG/L	1.0	1	B		0.2
MW-42	Calcium	UG/L	139,000	107,000			8.5
MW-42	Chromium (Total)	UG/L	15	0.71	B		0.5
MW-42	Cobalt	UG/L	10	1.4	B	U	0.4
MW-42	Copper	UG/L	22	1.7	B	U	0.3
MW-42	Cyanide (Total)	UG/L	10		U		4.7

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Comparison of Results to Baseline Highest Detections
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Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-42	Iron	UG/L	11,100	3,390			8.8
MW-42	Lead	UG/L	5.7		U		1
MW-42	Magnesium	UG/L	49,800	40,300			2.7
MW-42	Manganese	UG/L	928	631			0.1
MW-42	Mercury	UG/L	0.20		U		0.05
MW-42	Nickel	UG/L	20		U		0.5
MW-42	Potassium	UG/L	2,350	868	BE		11.1
MW-42	Selenium	UG/L	2.0		U		1.6
MW-42	Silver	UG/L	10		U		0.4
MW-42	Sodium	UG/L	18,000	14,800			101
MW-42	Thallium	UG/L	3.0		U		2.1
MW-42	Vanadium	UG/L	20		U		0.4
MW-42	Zinc	UG/L	30		U		0.4
MW-43	Aluminum	UG/L	12,700	211			33.2
MW-43	Antimony	UG/L	2.0		U		1.8
MW-43	Arsenic	UG/L	81	22.8			2
MW-43	Barium	UG/L	128	58	B	J	0.2
MW-43	Beryllium	UG/L	1.5	0.32	B	J	0.1
MW-43	Cadmium	UG/L	1.3		U		0.5
MW-43	Calcium	UG/L	134,000	105,000			10.7
MW-43	Chromium (Total)	UG/L	95	3.4	B	J	0.9
MW-43	Cobalt	UG/L	20	2.1	B	J	0.6
MW-43	Copper	UG/L	75	1.3	B	J	1.1
MW-43	Cyanide (Total)	UG/L	10	**40.6**		J	4.7
MW-43	Iron	UG/L	47,500	10,000			18.9
MW-43	Lead	UG/L	33		U		1
MW-43	Magnesium	UG/L	63,600	45,500			7.7
MW-43	Manganese	UG/L	857	245			0.1
MW-43	Mercury	UG/L	0.20		U	UJ	0.05
MW-43	Nickel	UG/L	82	4.3	B	J	1
MW-43	Potassium	UG/L	5,610	465	B	J	61.8
MW-43	Selenium	UG/L	2.1		U		3.1
MW-43	Silver	UG/L	10		U		0.3
MW-43	Sodium	UG/L	13,100	**14,700**			212
MW-43	Thallium	UG/L	3.0		U		4.1
MW-43	Vanadium	UG/L	31	1.6	B	J	0.6
MW-43	Zinc	UG/L	104		U	UJ	1.1
MW-44	Aluminum	UG/L	1,710		U		8.9
MW-44	Antimony	UG/L	2.0		U		1
MW-44	Arsenic	UG/L	41	7.3	B	U	1.4
MW-44	Barium	UG/L	150	119	B		0.1
MW-44	Beryllium	UG/L	1.0		U		0.1
MW-44	Cadmium	UG/L	1.0	**1.1**	B		0.2
MW-44	Calcium	UG/L	94,000	87,800			8.5
MW-44	Chromium (Total)	UG/L	31	5.9	B		0.5
MW-44	Cobalt	UG/L	10	0.51	B	U	0.4

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				Result	LQ	DQ	Detect Limit
MW-44	Copper	UG/L	27	2.3	B	U	0.3
MW-44	Iron	UG/L	14,700	1,700		J	8.8
MW-44	Lead	UG/L	1.5		U		1
MW-44	Magnesium	UG/L	38,450	38,000			2.7
MW-44	Manganese	UG/L	108	35.1			0.1
MW-44	Mercury	UG/L	0.20		U		0.05
MW-44	Nickel	UG/L	23	3.1	B	U	0.5
MW-44	Potassium	UG/L	2,040	973	BE		11.1
MW-44	Selenium	UG/L	2.0		U		1.6
MW-44	Silver	UG/L	10	0.52	B		0.4
MW-44	Sodium	UG/L	20,800	**26,400**			101
MW-44	Thallium	UG/L	3.0		U		2.1
MW-44	Vanadium	UG/L	20		U		0.4
MW-44	Zinc	UG/L	28		U		0.4
MW-45	Aluminum	UG/L	776	311			33.2
MW-45	Antimony	UG/L	2.0	**2.1**	B	J	1.8
MW-45	Arsenic	UG/L	44	43.5			2
MW-45	Barium	UG/L	117	84.2	B	J	0.2
MW-45	Beryllium	UG/L	1.0	0.26	B	J	0.1
MW-45	Cadmium	UG/L	1.0		U		0.5
MW-45	Calcium	UG/L	120,000	88,900			10.7
MW-45	Chromium (Total)	UG/L	29	**64.1**			0.9
MW-45	Cobalt	UG/L	10	3	B	J	0.6
MW-45	Copper	UG/L	48	5	B	J	1.1
MW-45	Cyanide (Total)	UG/L	10		U		4.7
MW-45	Iron	UG/L	15,900	**16,600**			18.9
MW-45	Lead	UG/L	39	1.8	B	J	1
MW-45	Magnesium	UG/L	322,000	23,300			7.7
MW-45	Manganese	UG/L	688	285			0.1
MW-45	Mercury	UG/L	0.20		U	UJ	0.05
MW-45	Nickel	UG/L	35	**48.3**			1
MW-45	Potassium	UG/L	8,350	5,430	E	J	61.8
MW-45	Selenium	UG/L	2.0	**3.1**	UN		3.1
MW-45	Silver	UG/L	10		U		0.3
MW-45	Sodium	UG/L	101,000	94,000			212
MW-45	Thallium	UG/L	3.0		U		4.1
MW-45	Vanadium	UG/L	20	1.1	B	J	0.6
MW-45	Zinc	UG/L	21	5.6	B*	J	1.1
MW-46	Aluminum	UG/L	821	39.2	B	J	33.2
MW-46	Antimony	UG/L	2.0		U		1.8
MW-46	Arsenic	UG/L	3.7		U		2
MW-46	Barium	UG/L	132	**146**	B	J	0.2
MW-46	Beryllium	UG/L	1.0	0.21	B	J	0.1
MW-46	Cadmium	UG/L	1.1		U		0.5
MW-46	Calcium	UG/L	115,000	**135,000**			10.7
MW-46	Chromium (Total)	UG/L	12		U		0.9

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				Result	LQ	DQ	Detect Limit
MW-46	Cobalt	UG/L	10		U		0.6
MW-46	Copper	UG/L	13		U		1.1
MW-46	Cyanide (Total)	UG/L	10		U	UJ	4.7
MW-46	Iron	UG/L	21,700	**33,000**			18.9
MW-46	Lead	UG/L	5.0		U		1
MW-46	Magnesium	UG/L	32,400	**37,500**			7.7
MW-46	Manganese	UG/L	1,510	**1,810**			0.1
MW-46	Mercury	UG/L	0.20		U	UJ	0.05
MW-46	Nickel	UG/L	20		U		1
MW-46	Potassium	UG/L	1,450	798	B	J	61.8
MW-46	Selenium	UG/L	2.0		U		3.1
MW-46	Silver	UG/L	10		U		0.3
MW-46	Sodium	UG/L	74,900	73,400			212
MW-46	Thallium	UG/L	3.0		U		4.1
MW-46	Vanadium	UG/L	20	1.8	B	J	0.6
MW-46	Zinc	UG/L	19	2.2	B	J	1.1
MW-47	Aluminum	UG/L	1,630	130	B	J	33.2
MW-47	Antimony	UG/L	2.0	**2.3**	B	J	1.8
MW-47	Arsenic	UG/L	2.0		U		2
MW-47	Barium	UG/L	13	6.2	B	J	0.2
MW-47	Beryllium	UG/L	1.0	0.28	B	J	0.1
MW-47	Cadmium	UG/L	1.0		U		0.5
MW-47	Calcium	UG/L	13,700	7,680			10.7
MW-47	Chromium (Total)	UG/L	10	3.2	B	J	0.9
MW-47	Cobalt	UG/L	10	0.74	B	J	0.6
MW-47	Copper	UG/L	15	1.4	B	J	1.1
MW-47	Cyanide (Total)	UG/L	10		U	UJ	4.7
MW-47	Iron	UG/L	1,130	172			18.9
MW-47	Lead	UG/L	23	1.6	B	J	1
MW-47	Magnesium	UG/L	3,990	2,480	B	J	7.7
MW-47	Manganese	UG/L	27	5.4	B	J	0.1
MW-47	Mercury	UG/L	0.20		U	UJ	0.05
MW-47	Nickel	UG/L	20	1.8	B	J	1
MW-47	Potassium	UG/L	1,130	613	B	J	61.8
MW-47	Selenium	UG/L	2.0		U		3.1
MW-47	Silver	UG/L	10	0.58	B	J	0.3
MW-47	Sodium	UG/L	6,750	4,900	B	J	212
MW-47	Thallium	UG/L	4.3		U		4.1
MW-47	Vanadium	UG/L	20	0.7	B	J	0.6
MW-47	Zinc	UG/L	42		U		1.1
MW-48	Aluminum	UG/L	330	119	B	U	8.9
MW-48	Antimony	UG/L	2.0	1.8	B	U	1
MW-48	Arsenic	UG/L	13	4	B	U	1.4
MW-48	Barium	UG/L	160	83.5	B		0.1
MW-48	Beryllium	UG/L	1.0	0.13	B	U	0.1
MW-48	Cadmium	UG/L	1.0		U		0.2

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CAS/cas
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1252042.221601

Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-48	Calcium	UG/L	142,000	84,100			8.5
MW-48	Chromium (Total)	UG/L	10	9.9	B		0.5
MW-48	Cobalt	UG/L	10	1.9	B	U	0.4
MW-48	Copper	UG/L	14	2.3	B	U	0.3
MW-48	Cyanide (Total)	UG/L	10		U		4.7
MW-48	Iron	UG/L	30,800	15,500			8.8
MW-48	Lead	UG/L	7.7		U		1
MW-48	Magnesium	UG/L	20,100	12,900			2.7
MW-48	Manganese	UG/L	688	325			0.1
MW-48	Mercury	UG/L	0.20		U		0.05
MW-48	Nickel	UG/L	20	14.8	B		0.5
MW-48	Potassium	UG/L	8,470	4,030	BE		11.1
MW-48	Selenium	UG/L	2.0		U		1.6
MW-48	Silver	UG/L	10		U		0.4
MW-48	Sodium	UG/L	52,100	27,500			101
MW-48	Thallium	UG/L	4.0		U		2.1
MW-48	Vanadium	UG/L	20	2	B	U	0.4
MW-48	Zinc	UG/L	53	4.3	B	U	0.4
MW-49	Aluminum	UG/L	1,070	387			33.2
MW-49	Antimony	UG/L	2.0	**42.4**	B	JB	1.8
MW-49	Arsenic	UG/L	38	25.7			2
MW-49	Barium	UG/L	135	117	B	J	0.2
MW-49	Beryllium	UG/L	1.1	0.53	B	JB	0.1
MW-49	Cadmium	UG/L	1.0		U		0.5
MW-49	Calcium	UG/L	94,600	81,900			10.7
MW-49	Chromium (Total)	UG/L	11	1.9	B	J	0.9
MW-49	Cobalt	UG/L	10	1.3	B	JB	0.6
MW-49	Copper	UG/L	12	2	B	JB	1.1
MW-49	Cyanide (Total)	UG/L	10		U		4.7
MW-49	Iron	UG/L	28,700	**32,600**			18.9
MW-49	Lead	UG/L	4.4		U		1
MW-49	Magnesium	UG/L	11,800	**11,900**			7.7
MW-49	Manganese	UG/L	2,330	1,560			0.1
MW-49	Mercury	UG/L	0.20		U	UJ	0.02
MW-49	Nickel	UG/L	21	5.5	B	J	1
MW-49	Potassium	UG/L	5,900	4,030	BE	JB	61.8
MW-49	Selenium	UG/L	2.0	**3.5**	B	J	3.1
MW-49	Silver	UG/L	10		U		0.3
MW-49	Sodium	UG/L	29,650	19,900			212
MW-49	Thallium	UG/L	3.0	**8**	B	J	4.1
MW-49	Vanadium	UG/L	20	3.6	B	J	0.6
MW-49	Zinc	UG/L	60	10.3	B	J	1.1
MW-50	Aluminum	UG/L	12,000	4,440			33.2
MW-50	Antimony	UG/L	2.0	**2.3**	B	J	1.8
MW-50	Arsenic	UG/L	7.7	2.9	B	J	2
MW-50	Barium	UG/L	314	209			0.2

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CAS/cas
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1252042.221601

Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-50	Beryllium	UG/L	1.1	0.41	B	J	0.1
MW-50	Cadmium	UG/L	1.0	0.71	B	J	0.5
MW-50	Calcium	UG/L	191,000	141,000			10.7
MW-50	Chromium (Total)	UG/L	130	**146**			0.9
MW-50	Cobalt	UG/L	12	5.7	B	J	0.6
MW-50	Copper	UG/L	41	12.6	B	J	1.1
MW-50	Cyanide (Total)	UG/L	10		U		4.7
MW-50	Iron	UG/L	20,200	10,300			18.9
MW-50	Lead	UG/L	14	4			1
MW-50	Magnesium	UG/L	87,800	66,500			7.7
MW-50	Manganese	UG/L	408	184			0.1
MW-50	Mercury	UG/L	0.20	**1.1**		J	0
MW-50	Nickel	UG/L	105	**109**			1
MW-50	Potassium	UG/L	21,200	9,530	E	J	61.8
MW-50	Selenium	UG/L	2.0	**3.1**	UN		3.1
MW-50	Silver	UG/L	1.0		U		0.3
MW-50	Sodium	UG/L	481,000	304,000			212
MW-50	Thallium	UG/L	3.0		U		4.1
MW-50	Vanadium	UG/L	19	8.3	B	J	0.6
MW-50	Zinc	UG/L	57	19.1	B*	J	1.1
MW-51	Aluminum	UG/L	1,040	166	B	J	33.2
MW-51	Antimony	UG/L	2.0		U		1.8
MW-51	Arsenic	UG/L	3.9		U		2
MW-51	Barium	UG/L	455	391			0.2
MW-51	Beryllium	UG/L	1.0	0.44	B	J	0.1
MW-51	Cadmium	UG/L	1.0	0.81	B	J	0.5
MW-51	Calcium	UG/L	153,000	131,000			10.7
MW-51	Chromium (Total)	UG/L	7.5	1.6	B	J	0.9
MW-51	Cobalt	UG/L	2.3	0.76	B	J	0.6
MW-51	Copper	UG/L	6.7	1.7	B	J	1.1
MW-51	Cyanide (Total)	UG/L	10		U	UJ	4.7
MW-51	Iron	UG/L	8,660	7,400			18.9
MW-51	Lead	UG/L	3.9		U		1
MW-51	Magnesium	UG/L	67,600	62,600			7.7
MW-51	Manganese	UG/L	173	88.6			0.1
MW-51	Mercury	UG/L	0.20		U	UJ	0.05
MW-51	Nickel	UG/L	11	3.1	B	J	1
MW-51	Potassium	UG/L	4,495	2,410	B	J	61.8
MW-51	Selenium	UG/L	2.0	**3.1**	B	J	3.1
MW-51	Silver	UG/L	1.0		U		0.3
MW-51	Sodium	UG/L	114,000	98,800			212
MW-51	Thallium	UG/L	3.0		U		4.1
MW-51	Vanadium	UG/L	1.8	0.77	B	J	0.6
MW-51	Zinc	UG/L	19		U	UJ	1.1
MW-52	Aluminum	UG/L	4,190	381			33.2
MW-52	Antimony	UG/L	6.8		U		1.8

BOLD = Exceedance
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CAS/cas
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1252042.221601

Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-52	Arsenic	UG/L	125	3.3	B	J	2
MW-52	Barium	UG/L	369	307			0.2
MW-52	Beryllium	UG/L	1.2	0.16	B	JB	0.1
MW-52	Cadmium	UG/L	1.0	0.86	B	J	0.5
MW-52	Calcium	UG/L	139,000	10,700			10.7
MW-52	Chromium (Total)	UG/L	248	3	B	J	0.9
MW-52	Cobalt	UG/L	13	1.1	B	JB	0.6
MW-52	Copper	UG/L	67	1.9	B	JB	1.1
MW-52	Cyanide (Total)	UG/L	10	9	B	J	4.7
MW-52	Iron	UG/L	11,600	4,630			18.9
MW-52	Lead	UG/L	31		U		1
MW-52	Magnesium	UG/L	52,800	44,300			7.7
MW-52	Manganese	UG/L	673	139			0.1
MW-52	Mercury	UG/L	0.20		U	UJ	0.02
MW-52	Nickel	UG/L	201	5	B	J	1
MW-52	Potassium	UG/L	7,770	2,360	BE	JB	61.8
MW-52	Selenium	UG/L	2.1		U		3.1
MW-52	Silver	UG/L	1.0	0.36	B	J	0.3
MW-52	Sodium	UG/L	152,000	15,500			212
MW-52	Thallium	UG/L	4.1		U		4.1
MW-52	Vanadium	UG/L	11	1.3	B	J	0.6
MW-52	Zinc	UG/L	90	1.2	B	J	1.1
MW-53	Aluminum	UG/L	39,200	229			33.2
MW-53	Antimony	UG/L	3.3	3.3	B	JB	1.8
MW-53	Arsenic	UG/L	30	3.4	B	J	2
MW-53	Barium	UG/L	1,620	1,420			0.2
MW-53	Beryllium	UG/L	6.2	0.29	B	JB	0.1
MW-53	Cadmium	UG/L	1.0	1.4	B	J	0.5
MW-53	Calcium	UG/L	258,000	24,600			10.7
MW-53	Chromium (Total)	UG/L	189	2.3	B	J	0.9
MW-53	Cobalt	UG/L	25	3.2	B	JB	0.6
MW-53	Copper	UG/L	107		U		1.1
MW-53	Cyanide (Total)	UG/L	10		U		4.7
MW-53	Iron	UG/L	48,800	25,800			18.9
MW-53	Lead	UG/L	138		U		1
MW-53	Magnesium	UG/L	117,000	93,200			7.7
MW-53	Manganese	UG/L	1,630	83.9			0.1
MW-53	Mercury	UG/L	0.24	0.08	B	JB	0.02
MW-53	Nickel	UG/L	139	8.6	B	J	1
MW-53	Potassium	UG/L	33,200	20,900	E	J	61.8
MW-53	Selenium	UG/L	5.1		U		3.1
MW-53	Silver	UG/L	1.0		U		0.3
MW-53	Sodium	UG/L	404,000	33,900			212
MW-53	Thallium	UG/L	3.0		U		4.1
MW-53	Vanadium	UG/L	32	1.9	B	J	0.6
MW-53	Zinc	UG/L	443	1.5	B	J	1.1

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CAS/cas
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1252042.221601

Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-54R	Aluminum	UG/L	1,980	63.8	B	U	8.9
MW-54R	Antimony	UG/L	3.2		U		1
MW-54R	Arsenic	UG/L	9.8	1.8	B	U	1.4
MW-54R	Barium	UG/L	190	**237**			0.1
MW-54R	Beryllium	UG/L	1.0		U		0.1
MW-54R	Cadmium	UG/L	1.0	**1.1**	B		0.2
MW-54R	Calcium	UG/L	132,000	**139,000**			8.5
MW-54R	Chromium (Total)	UG/L	82	4.1	B		0.5
MW-54R	Cobalt	UG/L	4.0	1	B	U	0.4
MW-54R	Copper	UG/L	60	1.7	B	U	0.3
MW-54R	Cyanide (Total)	UG/L	10		U		4.7
MW-54R	Iron	UG/L	5,480	4,570			8.8
MW-54R	Lead	UG/L	10	2	B	U	1
MW-54R	Magnesium	UG/L	54,100	**60,900**			2.7
MW-54R	Manganese	UG/L	256	88.4			0.1
MW-54R	Mercury	UG/L	0.20		U		0.05
MW-54R	Nickel	UG/L	66	3.2	B	U	0.5
MW-54R	Potassium	UG/L	4,540	2,100	BE		11.1
MW-54R	Selenium	UG/L	2.7		U		1.6
MW-54R	Silver	UG/L	1.0		U		0.4
MW-54R	Sodium	UG/L	28,700	**38,300**			101
MW-54R	Thallium	UG/L	3.0		U		2.1
MW-54R	Vanadium	UG/L	3.4		U		0.4
MW-54R	Zinc	UG/L	128		U		0.4
MW-55	Aluminum	UG/L	15,950	182	B	U	8.9
MW-55	Antimony	UG/L	2.2		U		1
MW-55	Arsenic	UG/L	13	2.1	B	U	1.4
MW-55	Barium	UG/L	286	261			0.1
MW-55	Beryllium	UG/L	2.7	0.26	B	U	0.1
MW-55	Cadmium	UG/L	1.0	0.77	B		0.2
MW-55	Calcium	UG/L	80,000	74,500			8.5
MW-55	Chromium (Total)	UG/L	145	3.6	B		0.5
MW-55	Cobalt	UG/L	11	1.8	B	U	0.4
MW-55	Copper	UG/L	105	5.9	B	U	0.3
MW-55	Cyanide (Total)	UG/L	10		U		4.7
MW-55	Iron	UG/L	17,700	370			8.8
MW-55	Lead	UG/L	46	2	B	U	1
MW-55	Magnesium	UG/L	48,500	**53,600**			2.7
MW-55	Manganese	UG/L	594	113			0.1
MW-55	Mercury	UG/L	0.22		U		0.05
MW-55	Nickel	UG/L	110	3.2	B		0.5
MW-55	Potassium	UG/L	11,350	4,090	BE		11.1
MW-55	Selenium	UG/L	4.7		U		1.6
MW-55	Silver	UG/L	1.0		U		0.4
MW-55	Sodium	UG/L	128,000	45,800			101
MW-55	Thallium	UG/L	3.0	2.7	B		2.1

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CAS/cas
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1252042.221601

Comparison of Results to Baseline Highest Detections
June 1999
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-55	Vanadium	UG/L	16		U		0.4
MW-55	Zinc	UG/L	110		U		0.4

BOLD = Exceedance
NA = Not Applicable

CAS/cas
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APPENDIX B

TIME TREND PLOTS

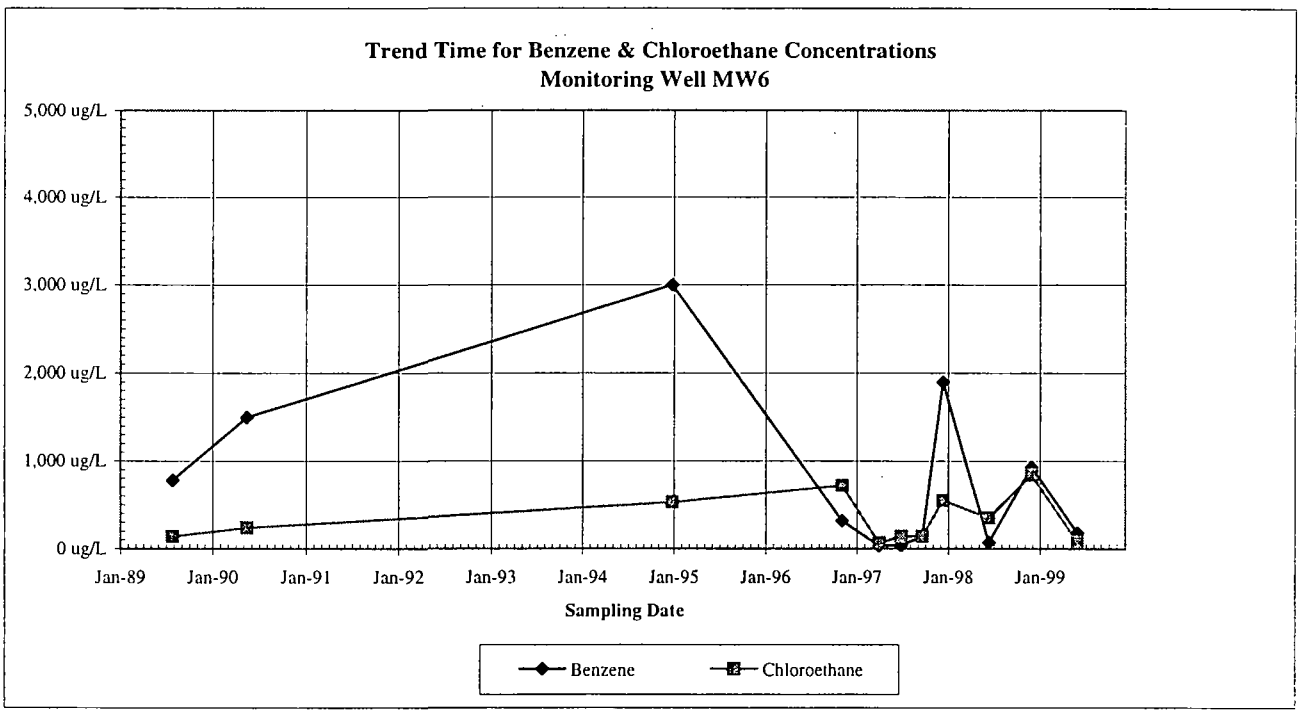
Upper Aquifer Monitoring Well: MW6

Baseline Groundwater Monitoring
ACS NPL Site

MW6

Date	Benzene	Chloroethane
August-89	780 ug/L	140 ug/L
May-90	1,500 ug/L	240 ug/L
December-94	3,000 ug/L	530 ug/L
November-96	320 ug/L	720 ug/L
April-97	35 ug/L	67 ug/L
July-97	39 ug/L	140 ug/L
September-97	140 ug/L	140 ug/L
December-97	1,900 ug/L	550 ug/L
June-98	72 ug/L	350 ug/L
December-98	930 ug/L	840 ug/L
June-99	180 ug/L	78 ug/L
October-99		

BDL = Below the Detection Limit



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Timetrnd_South.xls\MW6

10/29/99

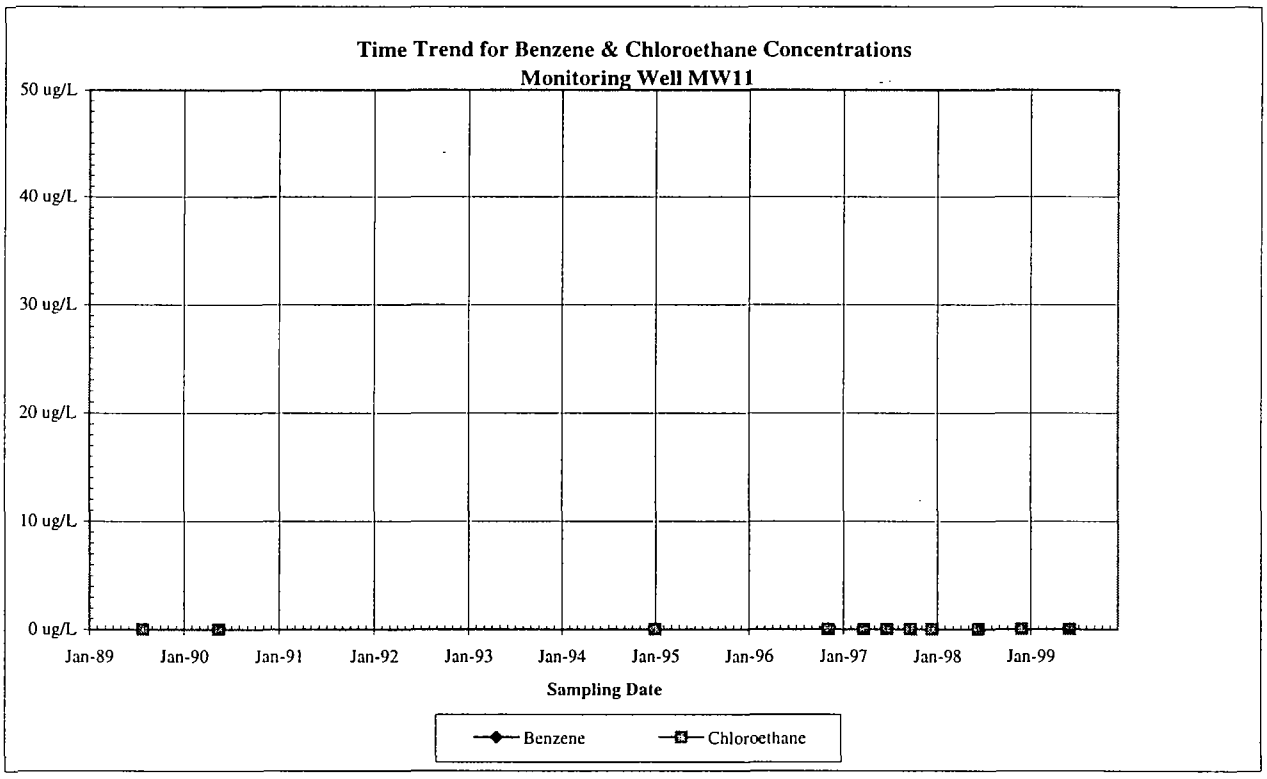
Upper Aquifer Monitoring Well: MW11

Baseline Groundwater Monitoring
ACS NPL Site

MW11

Date	Benzene	Chloroethane
August-89	BDL	BDL
May-90	BDL	BDL
January-95	BDL	BDL
November-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
October-99		

BDL = Below the Detection Limit



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Timetrnd_North.xls\MW11

10/26/99

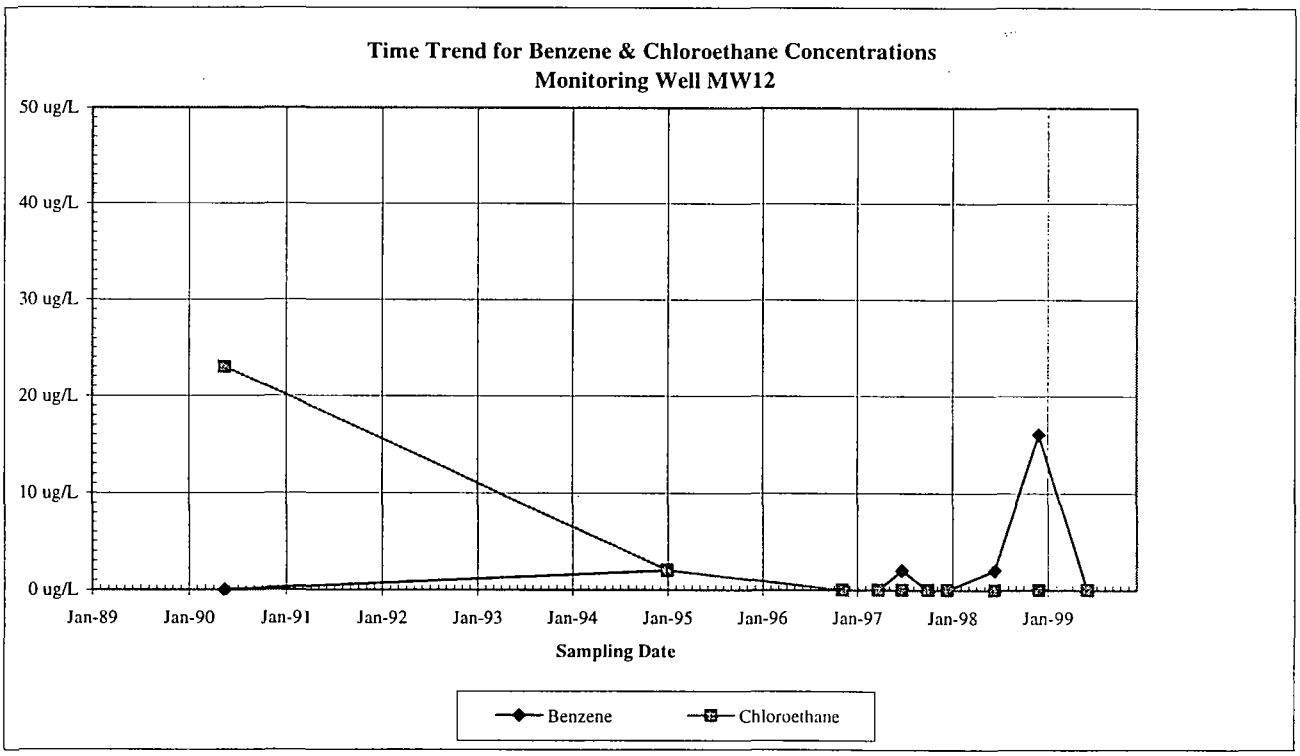
Upper Aquifer Monitoring Well: MW12

Baseline Groundwater Monitoring
ACS NPL Site

MW12

Date	Benzene	Chloroethane
August-89		
May-90	BDL	23 ug/L
January-95	2 ug/L	2 ug/L
November-96	BDL	BDL
March-97	BDL	BDL
June-97	2 ug/L	BDL
October-97	BDL	BDL
December-97	BDL	BDL
June-98	2 ug/L	BDL
December-98	16 ug/L	BDL
June-99	BDL	BDL
October-99		

BDL = Below the Detection Limit



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Timetrnd_South.xls\MW12

10/26/99

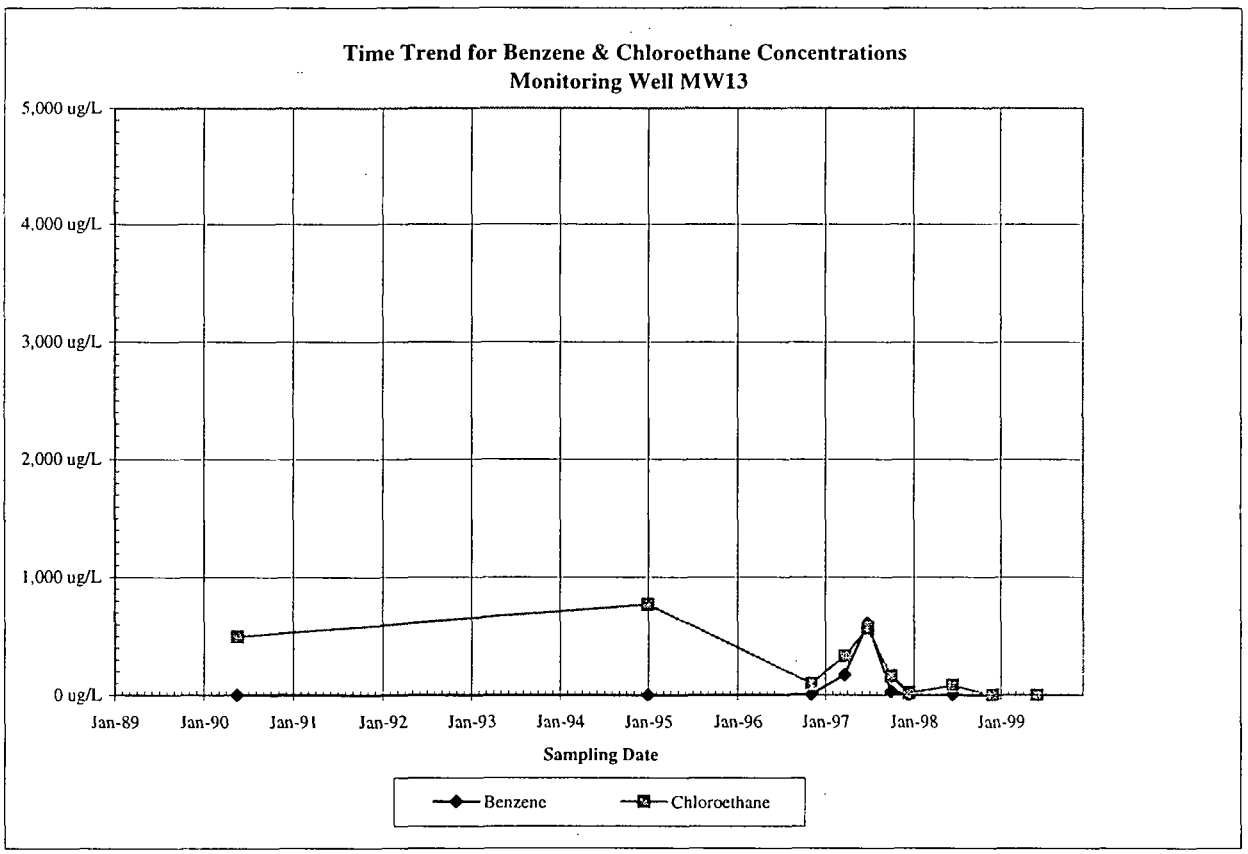
Upper Aquifer Monitoring Well: MW13

Baseline Groundwater Monitoring
ACS NPL Site

MW13

Date	Benzene	Chloroethane
August-89		
May-90	2 ug/L	500 ug/L
January-95	BDL	770 ug/L
November-96	6 ug/L	97 ug/L
March-97	170 ug/L	330 ug/L
June-97	610 ug/L	570 ug/L
October-97	33 ug/L	160 ug/L
December-97	BDL	20 ug/L
June-98	2 ug/L	82 ug/L
December-98	BDL	BDL
June-99	BDL	BDL
October-99		

BDL = Below the Detection Limit



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Timetrnd_North.xls\MW13

10/29/99

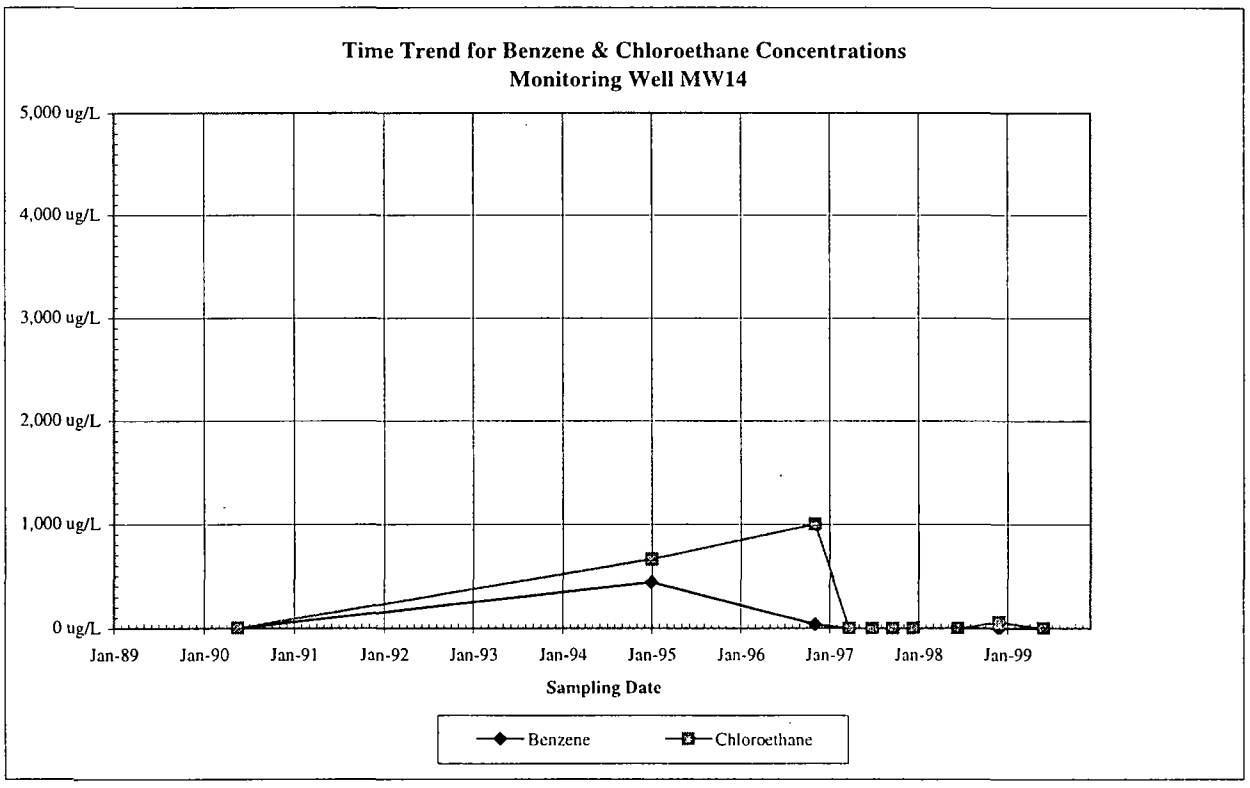
Upper Aquifer Monitoring Well: MW14

Baseline Groundwater Monitoring
ACS NPL Site

MW14

Date	Benzene	Chloroethane
August-89		
May-90	2 ug/L	3 ug/L
January-95	440 ug/L	660 ug/L
November-96	41 ug/L	1,000 ug/L
March-97	BDL	BDL
June-97	1 ug/L	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	59 ug/L
June-99	BDL	BDL
October-99		

BDL = Below the Detection Limit



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Timetrnd_North.xls\MW14

10/26/99

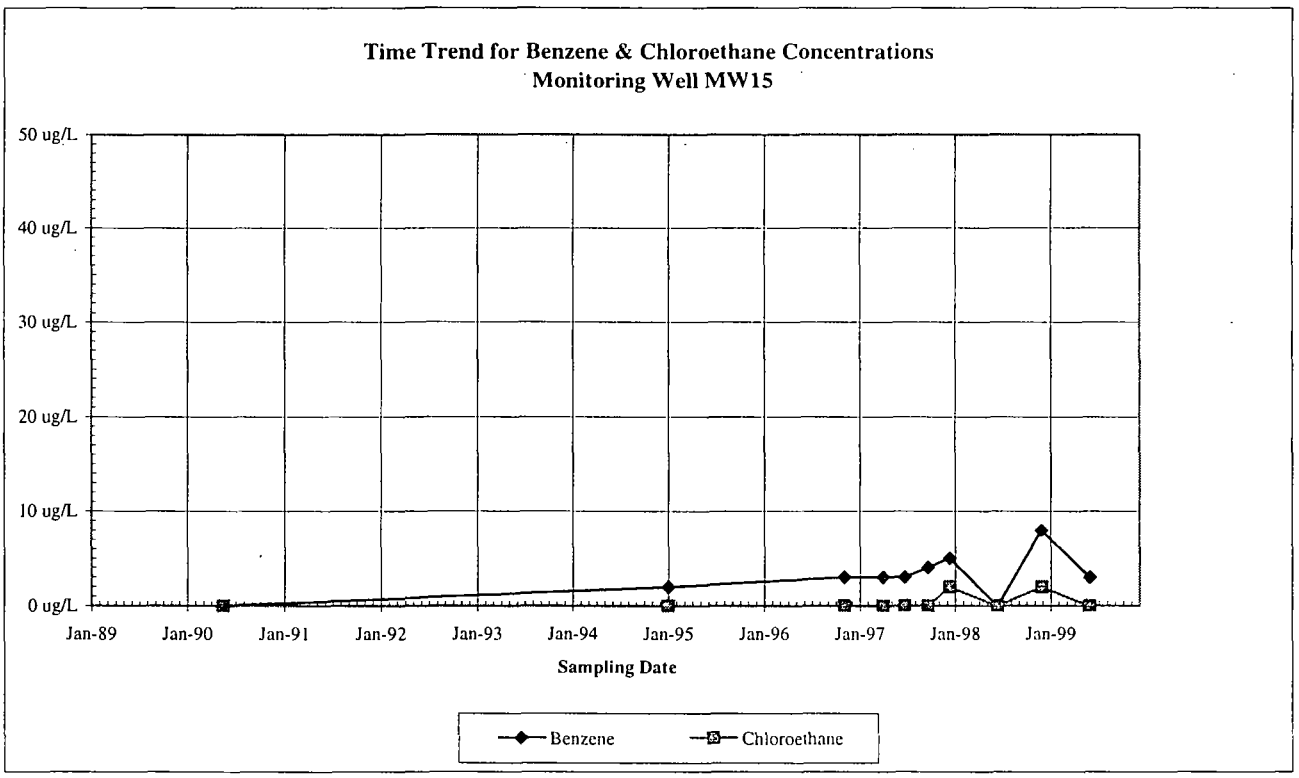
Upper Aquifer Monitoring Well: MW15

Baseline Groundwater Monitoring
ACS NPL Site

MW15

Date	Benzene	Chloroethane
August-89		
May-90	BDL	BDL
January-95	2 ug/L	BDL
November-96	3 ug/L	BDL
April-97	3 ug/L	BDL
June-97	3 ug/L	BDL
September-97	4 ug/L	BDL
December-97	5 ug/L	2 ug/L
June-98	BDL	BDL
December-98	8 ug/L	2 ug/L
June-99	3 ug/L	BDL
October-99		

BDL = Below the Detection Limit



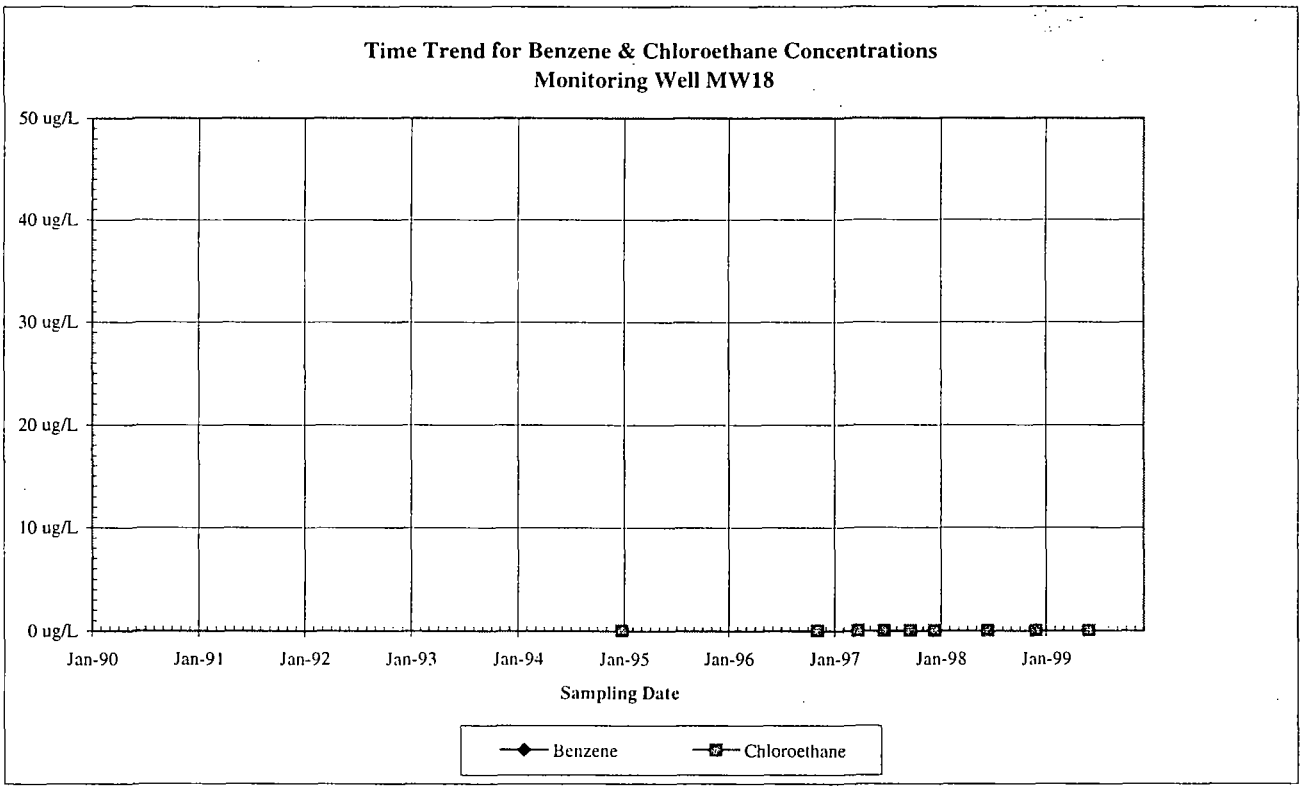
Upper Aquifer Monitoring Well: MW18

Baseline Groundwater Monitoring
ACS NPL Site

MW18

Date	Benzene	Chloroethane
August-89		
May-90		
December-94	BDL	BDL
November-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
October-99		

BDL = Below the Detection Limit



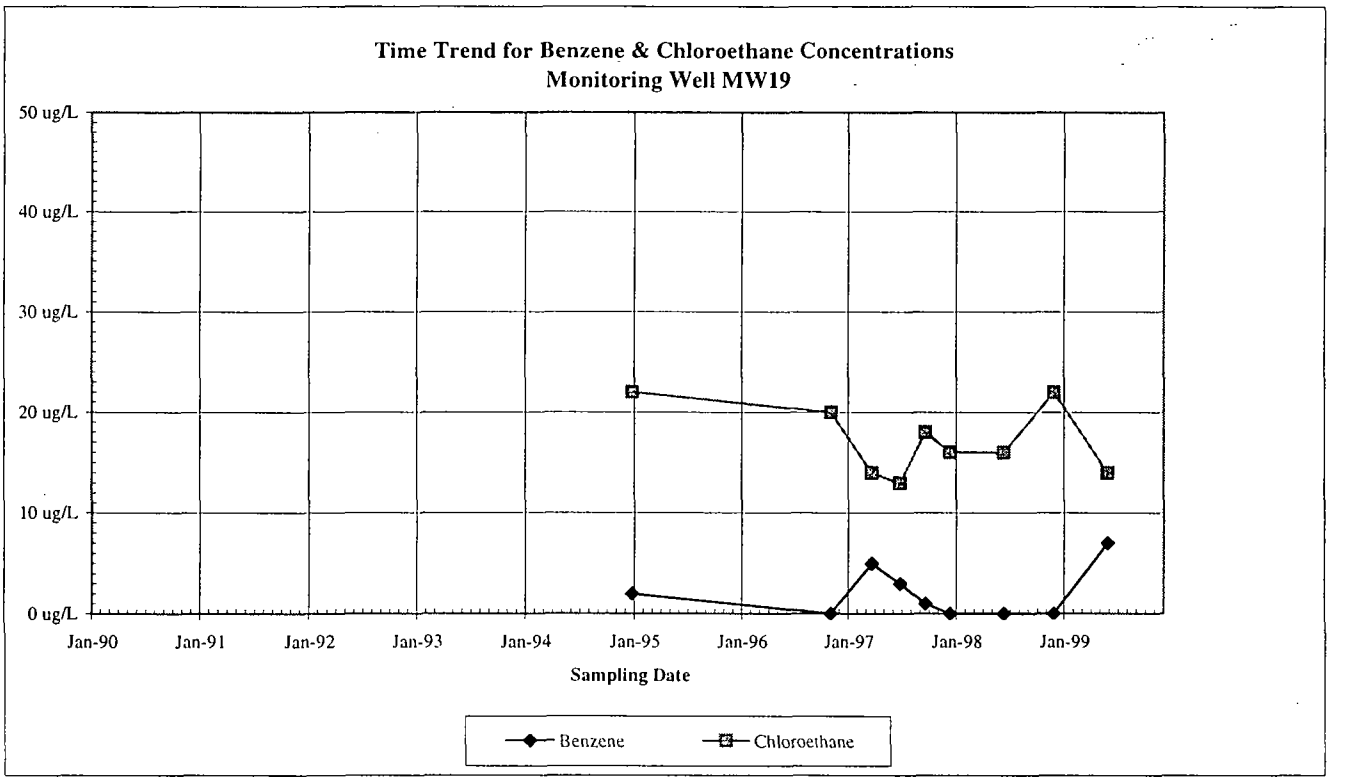
Upper Aquifer Monitoring Well: MW19

Baseline Groundwater Monitoring
ACS NPL Site

MW19

Date	Benzene	Chloroethane
August-89		
May-90		
December-94	2 ug/L	22 ug/L
November-96	BDL	20 ug/L
March-97	5 ug/L	14 ug/L
June-97	3 ug/L	13 ug/L
September-97	1 ug/L	18 ug/L
December-97	BDL	16 ug/L
June-98	BDL	16 ug/L
December-98	BDL	22 ug/L
June-99	7 ug/L	14 ug/L
October-99		

BDL = Below the Detection Limit



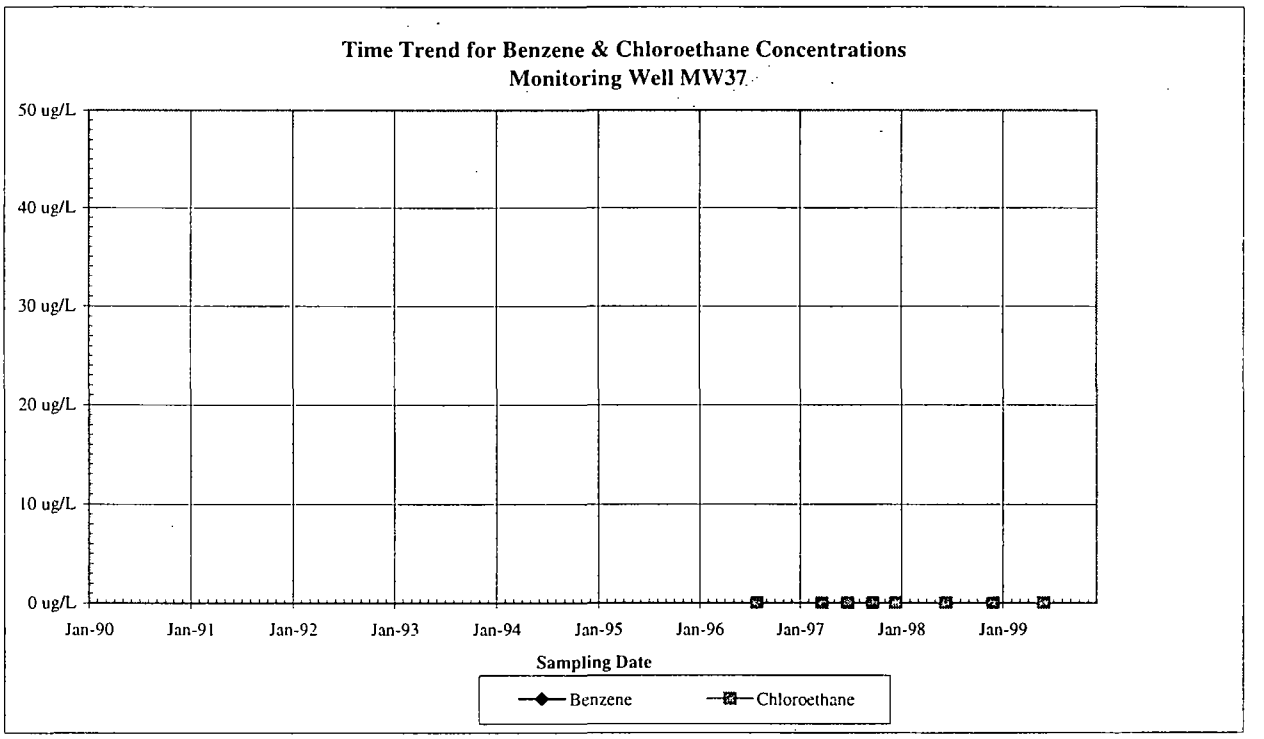
Upper Aquifer Monitoring Well: MW37

Baseline Groundwater Monitoring
ACS NPL Site

MW37

Date	Benzene	Chloroethane
August-89		
May-90		
December-94		
August-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
October-99		

BDL = Below the Detection Limit



JMK/JMS
J:1252\042\Database
Timetrnd_North.xls\MW37

10/29/99

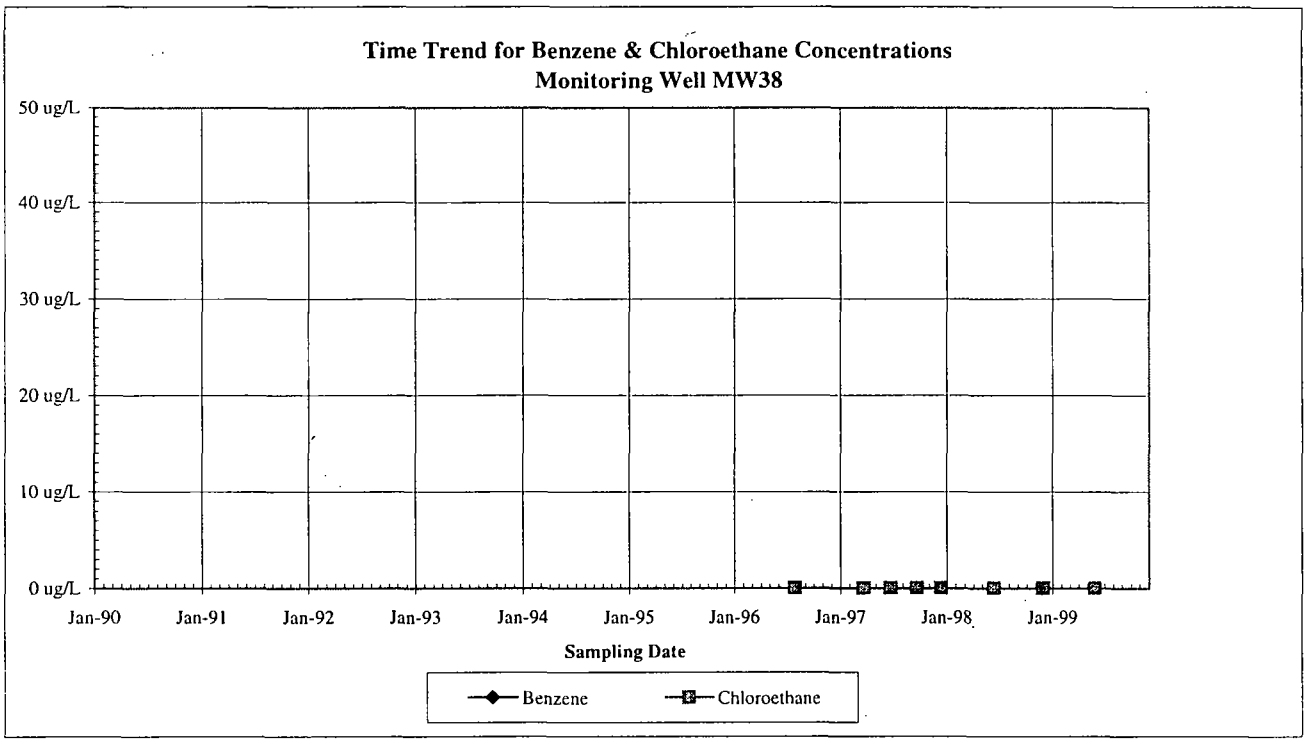
Upper Aquifer Monitoring Well: MW38

Baseline Groundwater Monitoring
ACS NPL Site

MW38

Date	Benzene	Chloroethane
August-89		
May-90		
December-94		
August-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
October-99		

BDL = Below the Detection Limit



JMK/JMS
J:\252\042\Database
Timetrnd_North.xls\MW38

10/26/99

Upper Aquifer Monitoring Well: MW39

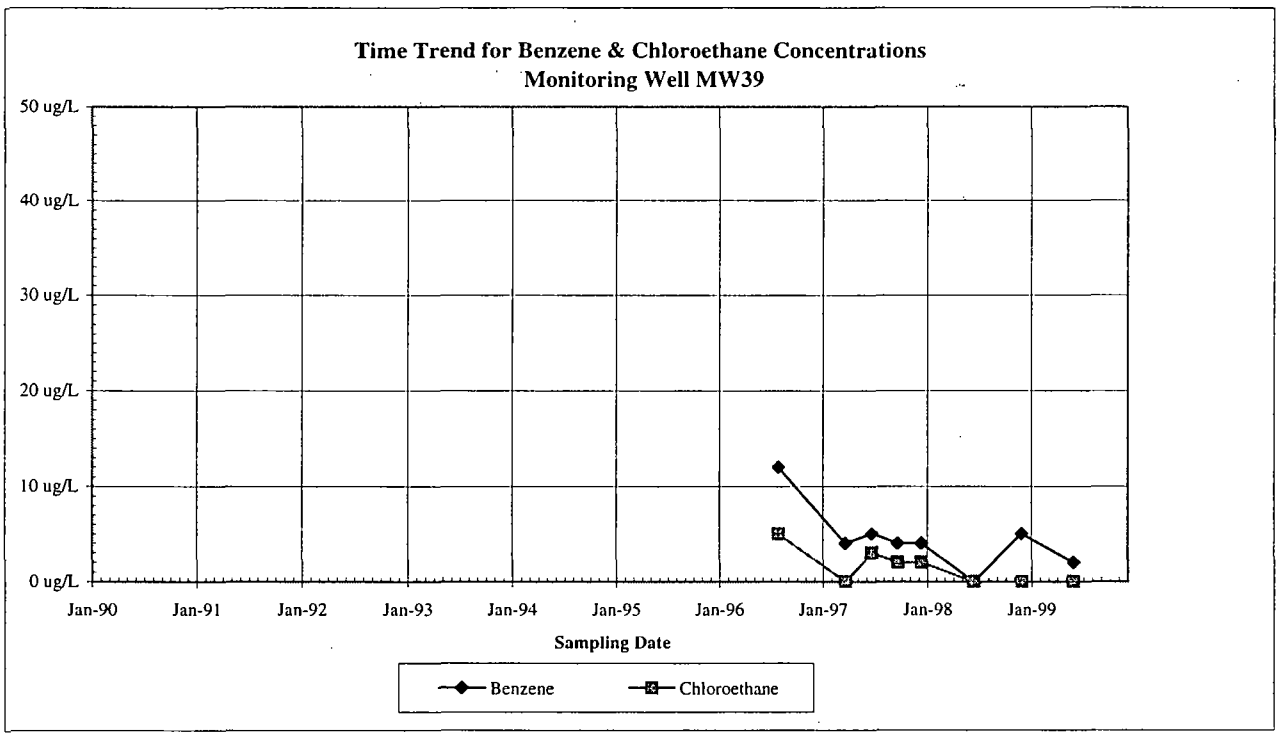
Baseline Groundwater Monitoring

ACS NPL Site

MW39

Date	Benzene	Chloroethane
August-89		
May-90		
December-94		
August-96	12 ug/L	5 ug/L
March-97	4 ug/L	BDL
June-97	5 ug/L	3 ug/L
September-97	4 ug/L	2 ug/L
December-97	4 ug/L	2 ug/L
June-98	BDL	BDL
December-98	5 ug/L	BDL
June-99	2 ug/L	BDL
October-99		

BDL = Below the Detection Limit



JMK/JMS
J:1252\042\Database
Timetrnd_North.xls\MW39

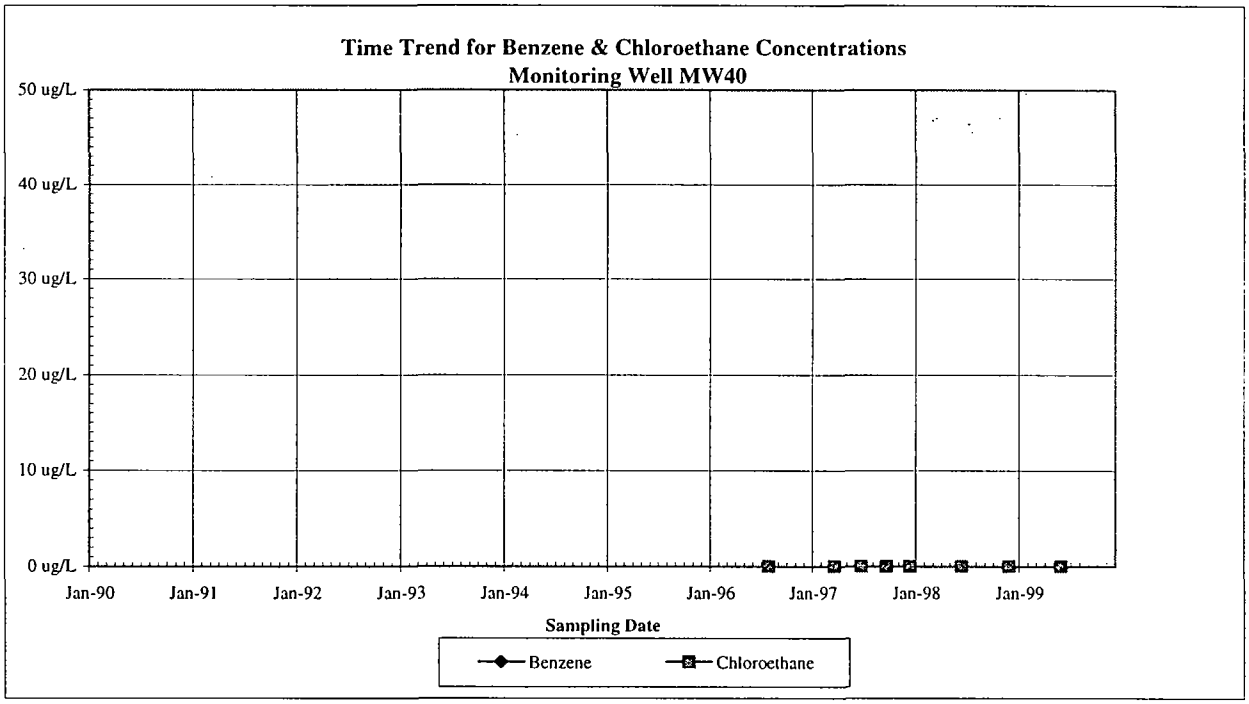
10/29/99

Baseline Groundwater Monitoring
ACS NPL Site

MW40

Date	Benzene	Chloroethane
August-89		
May-90		
December-94		
August-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
October-99		

BDL = Below the Detection Limit



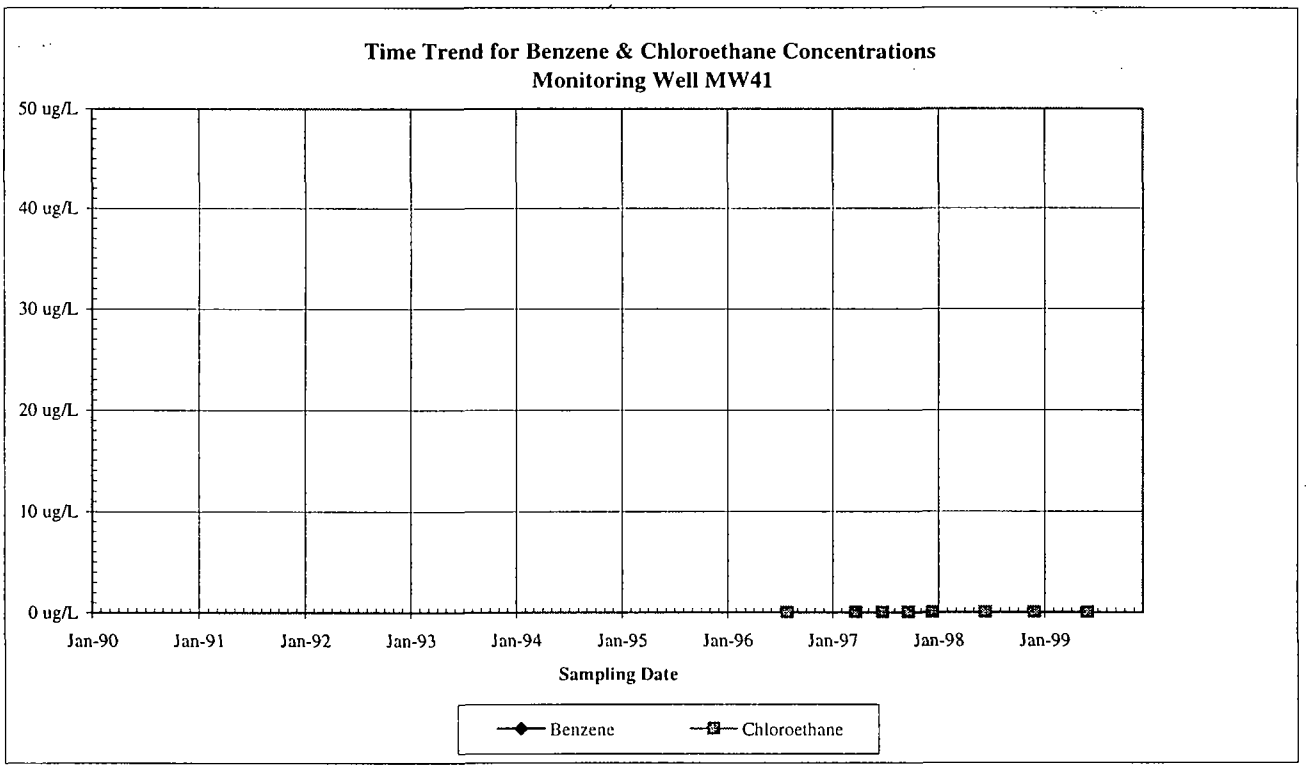
Upper Aquifer Monitoring Well: MW41

Baseline Groundwater Monitoring
ACS NPL Site

MW41

Date	Benzene	Chloroethane
August-89		
May-90		
December-94		
August-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
October-99		

BDL = Below the Detection Limit



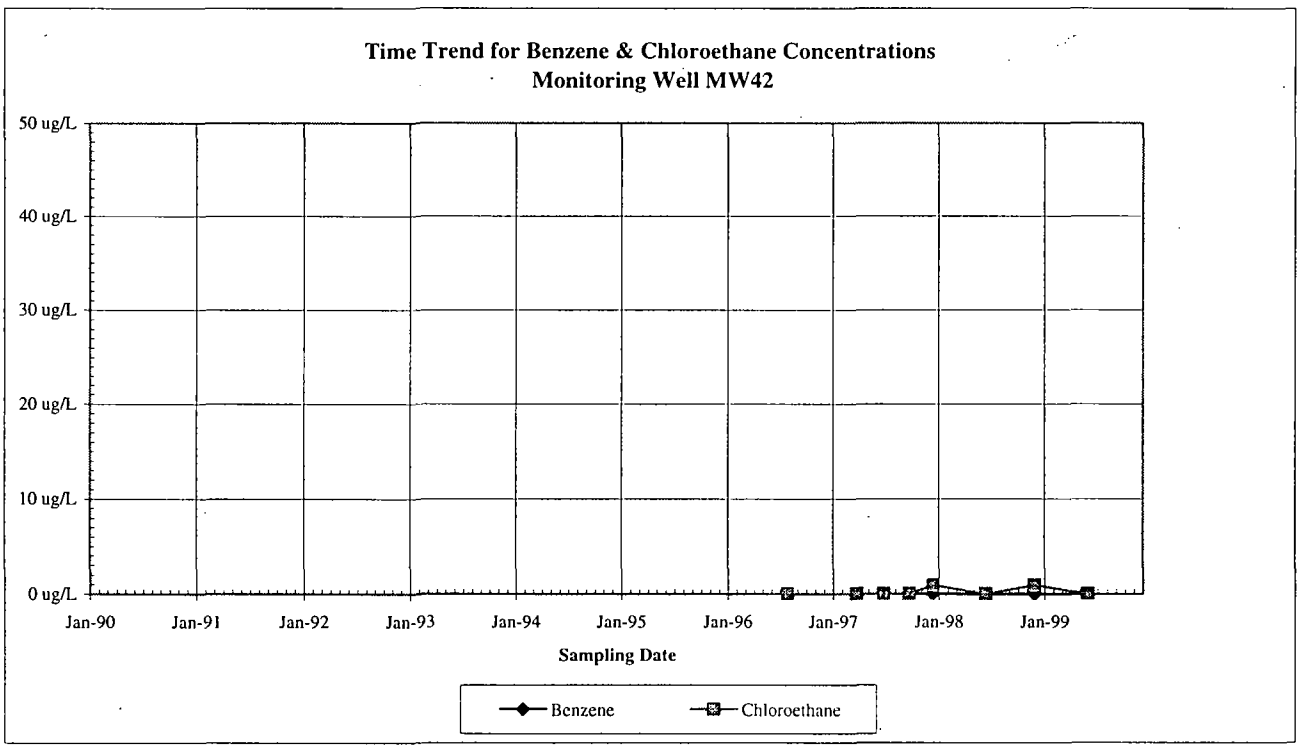
Upper Aquifer Monitoring Well: MW42

Baseline Groundwater Monitoring
ACS NPL Site

MW42

Date	Benzene	Chloroethane
August-89		
May-90		
December-94		
August-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	0.9 ug/L
June-98	BDL	BDL
December-98	BDL	0.9 ug/L
June-99	BDL	BDL
October-99		

BDL = Below the Detection Limit



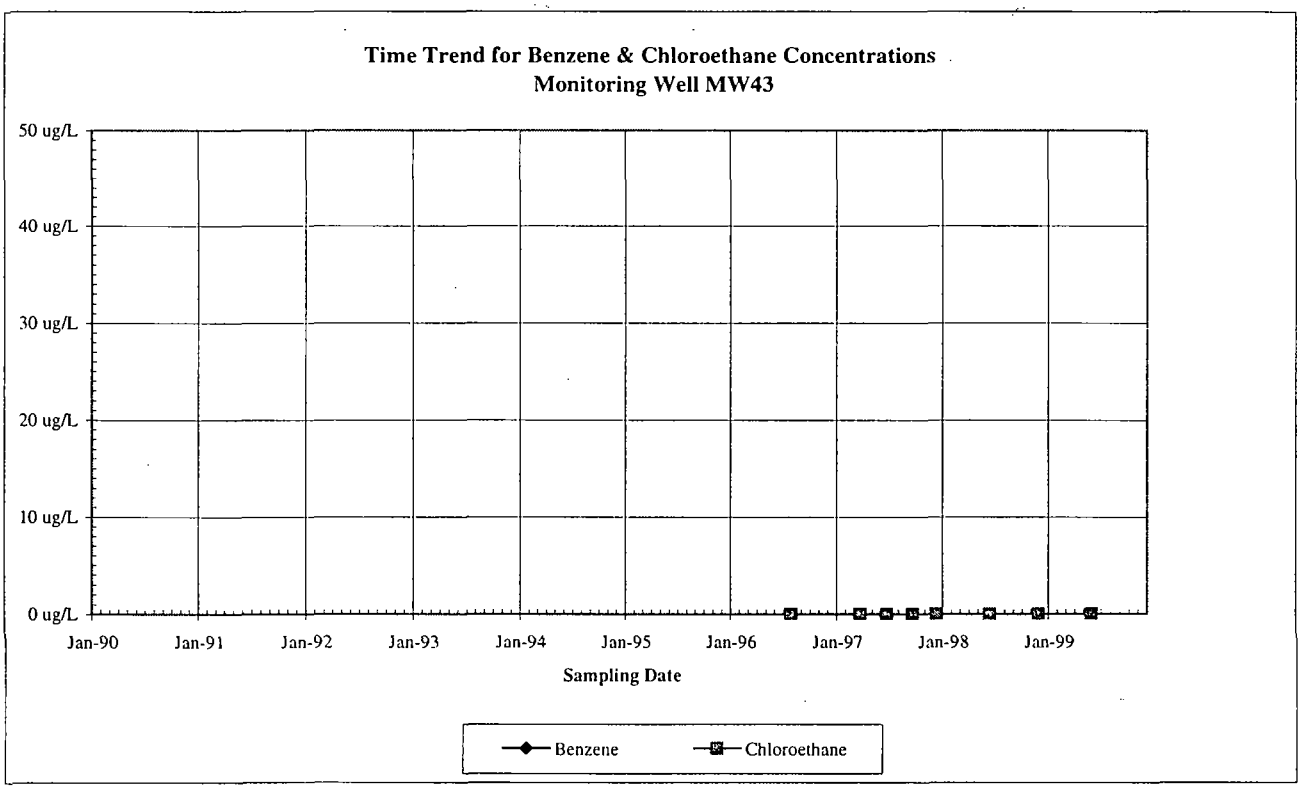
Upper Aquifer Monitoring Well: MW43

Baseline Groundwater Monitoring
ACS NPL Site

MW43

Date	Benzene	Chloroethane
August-89		
May-90		
December-94		
August-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
October-99		

BDL = Below the Detection Limit



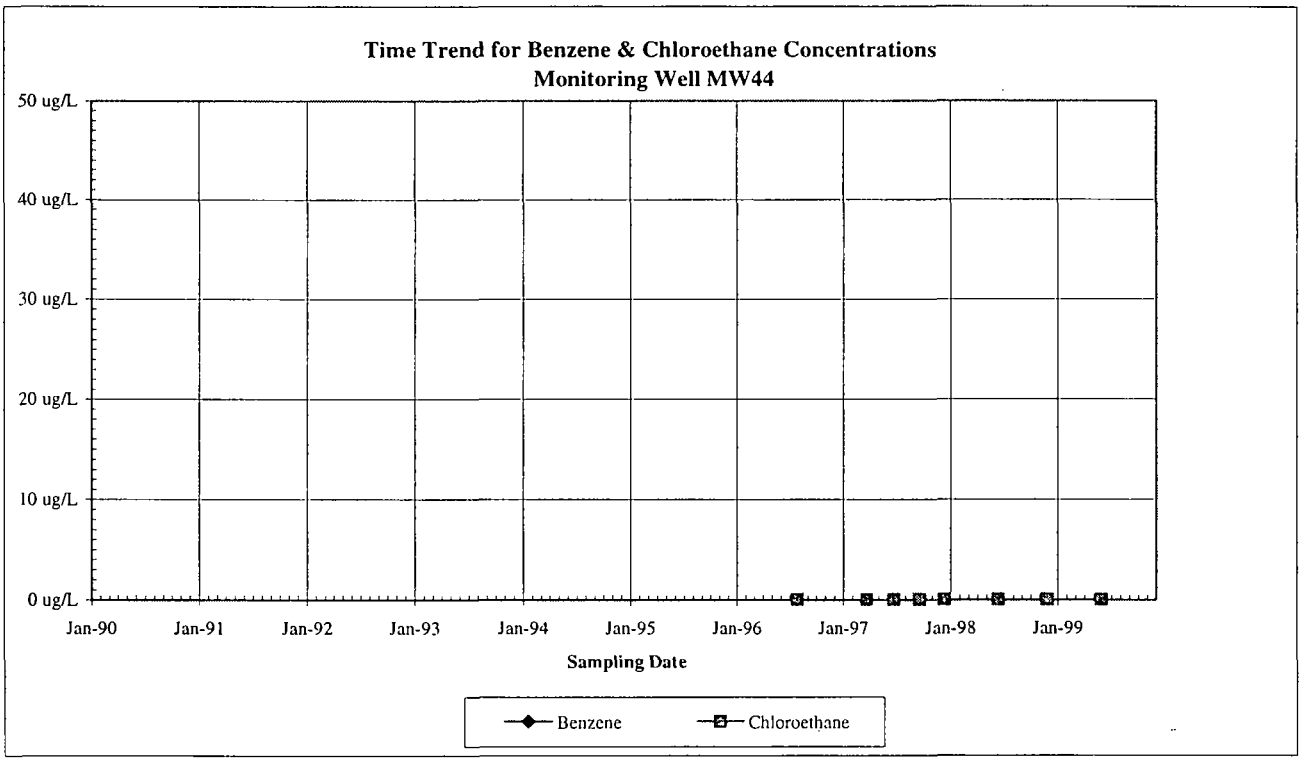
Upper Aquifer Monitoring Well: MW44

Baseline Groundwater Monitoring
ACS NPL Site

MW44

Date	Benzene	Chloroethane
August-89		
May-90		
December-94		
August-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
October-99		

BDL = Below the Detection Limit



JMK/JMS
J:1252\042\Database
Timetrnd_South.xls\MW44

10/26/99

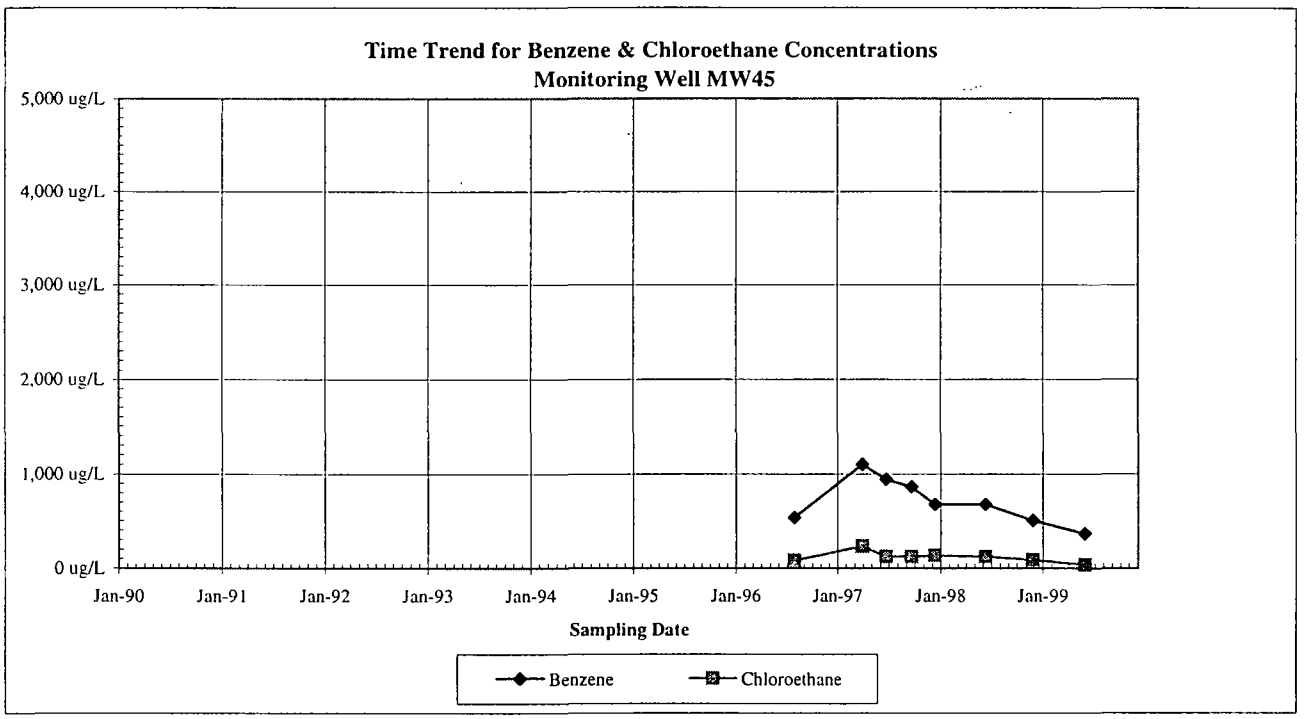
Upper Aquifer Monitoring Well: MW45

Baseline Groundwater Monitoring
ACS NPL Site

MW45

Date	Benzene	Chloroethane
August-89		
May-90		
December-94		
August-96	530 ug/L	82 ug/L
April-97	1,100 ug/L	230 ug/L
June-97	940 ug/L	120 ug/L
September-97	860 ug/L	120 ug/L
December-97	670 ug/L	130 ug/L
June-98	670 ug/L	120 ug/L
December-98	500 ug/L	88 ug/L
June-99	360 ug/L	38 ug/L
October-99		

BDL = Below the Detection Limit



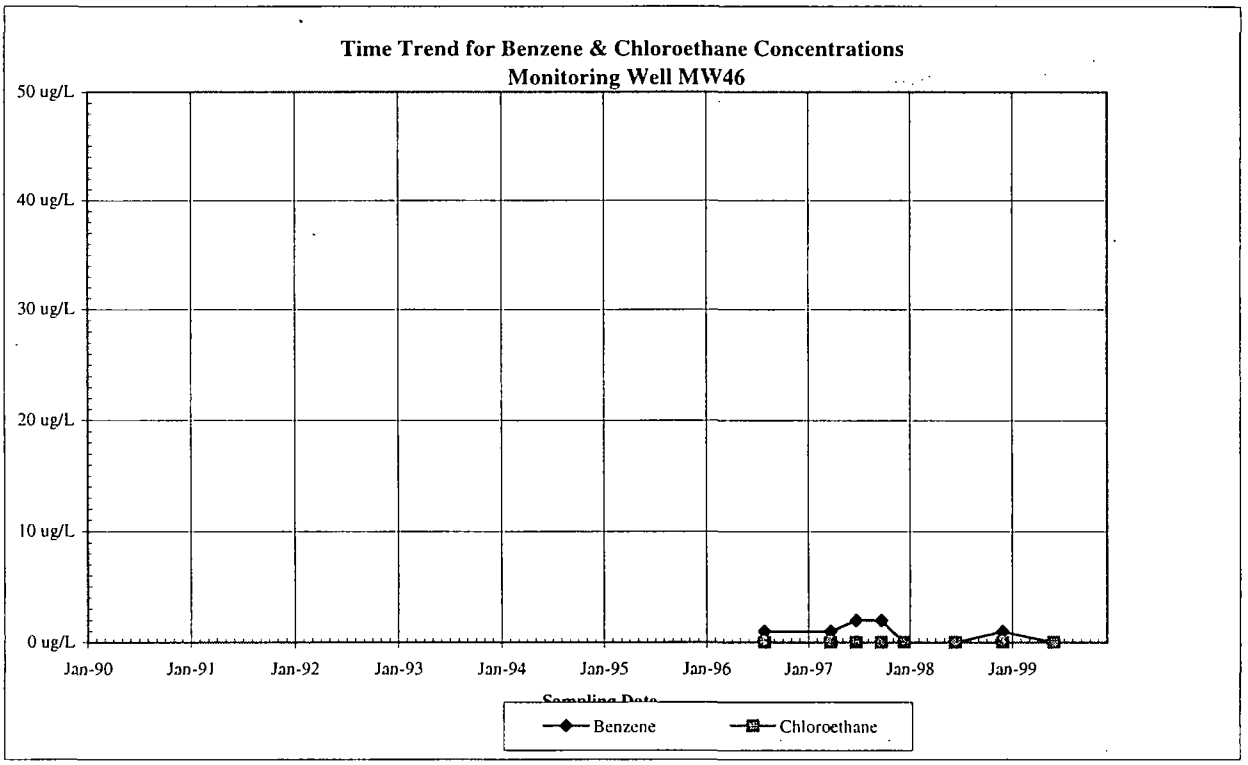
Upper Aquifer Monitoring Well: MW46

Baseline Groundwater Monitoring
ACS NPL Site

MW46

Date	Benzene	Chloroethane
August-89		
May-90		
December-94		
August-96	1 ug/L	BDL
March-97	1 ug/L	BDL
June-97	2 ug/L	BDL
September-97	2 ug/L	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	1 ug/L	BDL
June-99	BDL	BDL
October-99		

BDL = Below the Detection Limit



JMK/JMS
J:1252\042\Database
Timetrnd_North.xls\MW46

10/26/99

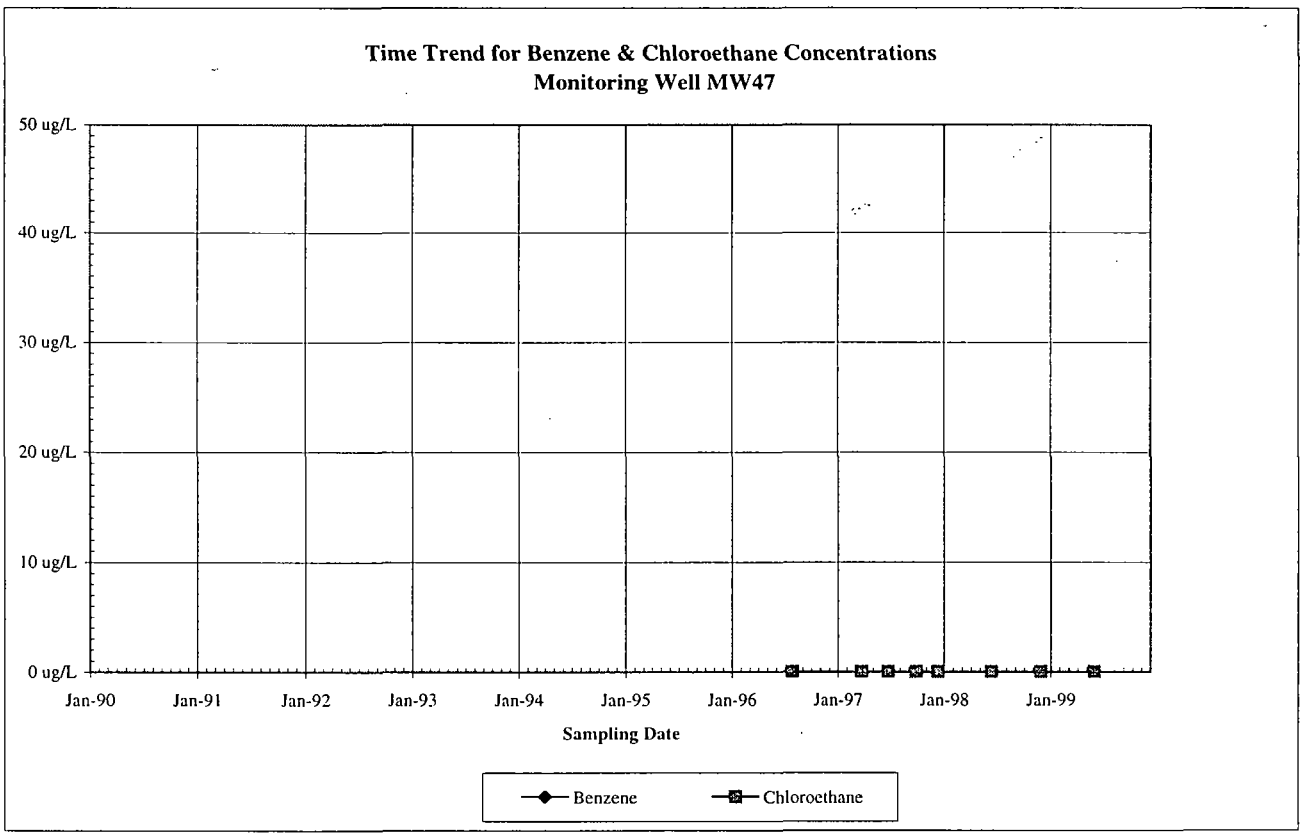
Upper Aquifer Monitoring Well: MW47

Baseline Groundwater Monitoring
ACS NPL Site

MW47

Date	Benzene	Chloroethane
August-89		
May-90		
December-94		
August-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
October-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
October-99		

BDL = Below the Detection Limit



JMK/JMS
J:1252\042\Database
Timetrnd_South.xls\MW47

10/26/99

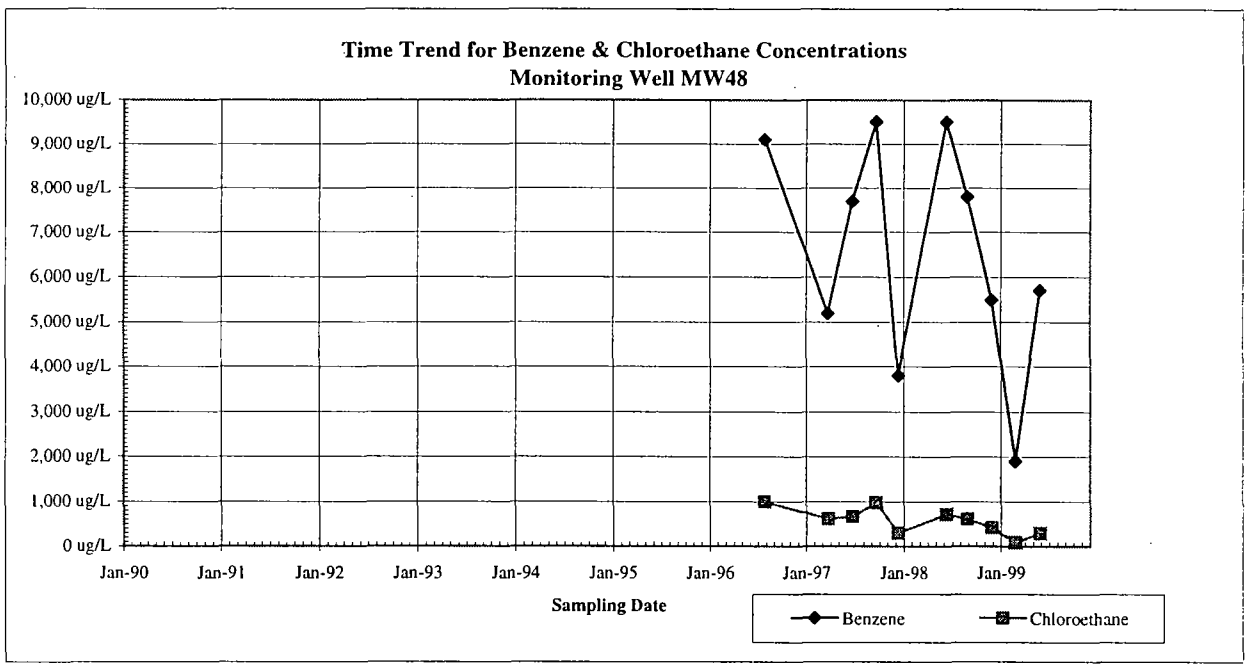
Upper Aquifer Monitoring Well: MW48

Baseline Groundwater Monitoring

ACS NPL Site

MW48

Date	Benzene	Chloroethane
August-89		
May-90		
December-94		
August-96	9,100 ug/L	1,000 ug/L
March-97	5,200 ug/L	620 ug/L
June-97	7,700 ug/L	670 ug/L
September-97	9,500 ug/L	980 ug/L
December-97	3,800 ug/L	300 ug/L
June-98	9,500 ug/L	720 ug/L
September-98	7,800 ug/L	610 ug/L
December-98	5,500 ug/L	420 ug/L
March-99	1,900 ug/L	83 ug/L
June-99	5,700 ug/L	290 ug/L



JMK/JMS
J:1252\042\Database
Timetrnd_North.xls\MW48

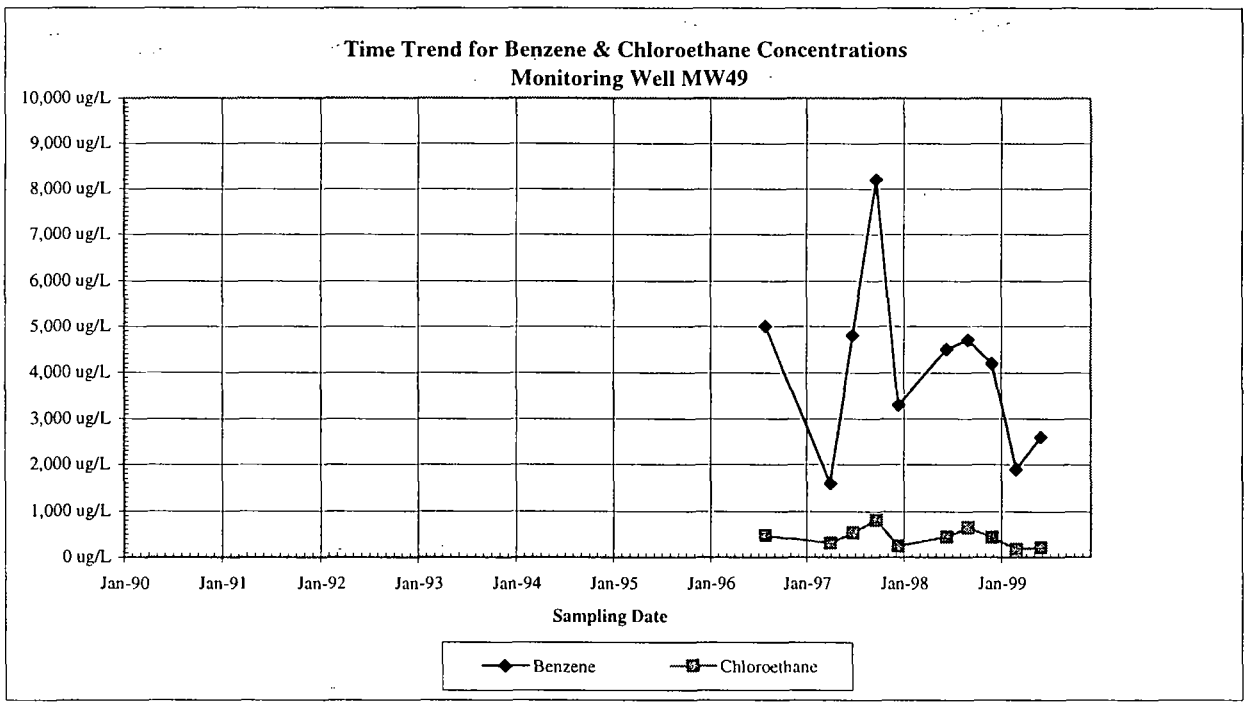
10/26/99

Baseline Groundwater Monitoring

ACS NPL Site

MW49

Date	Benzene	Chloroethane
August-89		
May-90		
December-94		
August-96	5,000 ug/L	480 ug/L
April-97	1,600 ug/L	310 ug/L
June-97	4,800 ug/L	540 ug/L
September-97	8,200 ug/L	810 ug/L
December-97	3,300 ug/L	250 ug/L
June-98	4,500 ug/L	450 ug/L
September-98	4,700 ug/L	650 ug/L
December-98	4,200 ug/L	440 ug/L
March-99	1,900 ug/L	180 ug/L
June-99	2,600 ug/L	220 ug/L



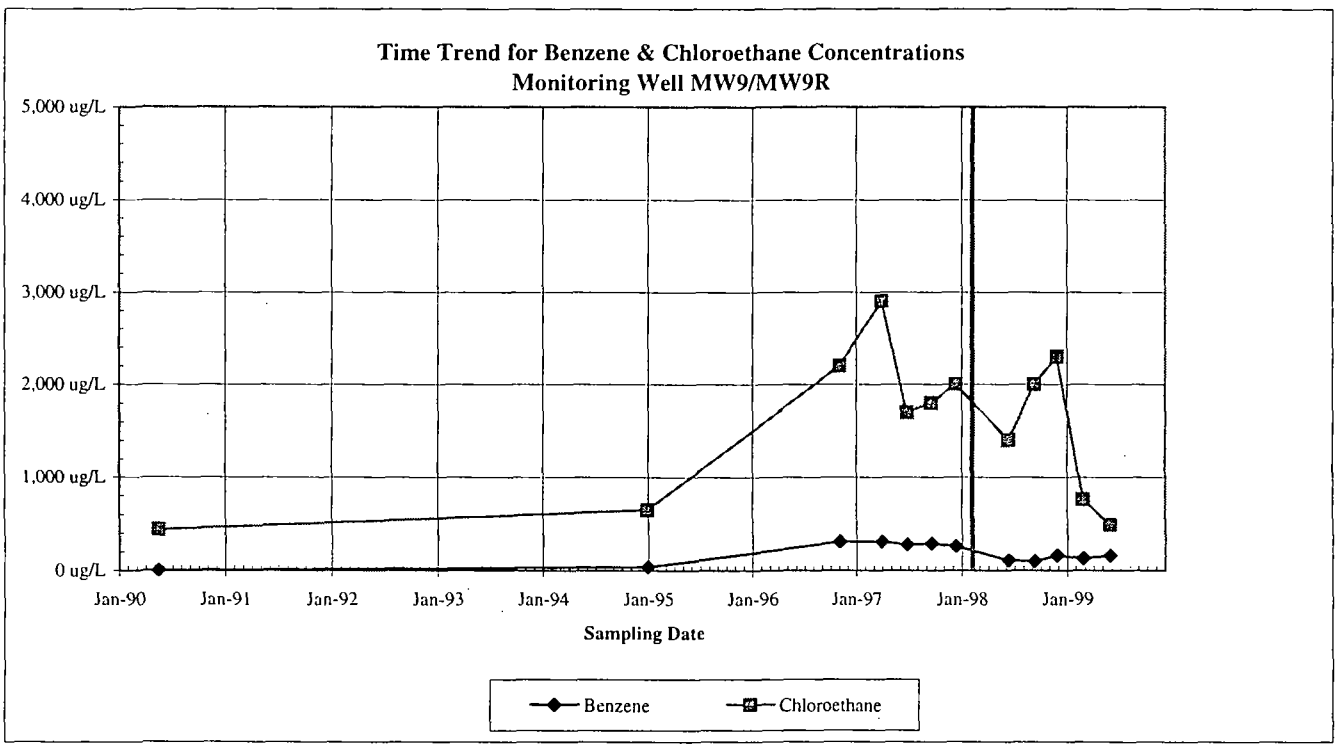
Lower Aquifer Monitoring Well: MW9/MW9R

Baseline Groundwater Monitoring
ACS NPL Site

MW9/MW9R

Date	Benzene	Chloroethane
August-89		
May-90	BDL	440 ug/L
January-95	40 ug/L	650 ug/L
November-96	310 ug/L	2,200 ug/L
April-97	310 ug/L	2,900 ug/L
June-97	280 ug/L	1,700 ug/L
September-97	290 ug/L	1,800 ug/L
December-97	260 ug/L	2,000 ug/L
June-98	110 ug/L	1,400 ug/L
September-98	100 ug/L	2,000 ug/L
December-98	160 ug/L	2,300 ug/L
March-99	130 ug/L	760 ug/L
June-99	160 ug/L	490 ug/L

BDL = Below the Detection Limit



Line indicates change to replacement well

JMK/JMS
J:1252\042\Database
Timetrnd-LA.xls\MW9

10/26/99

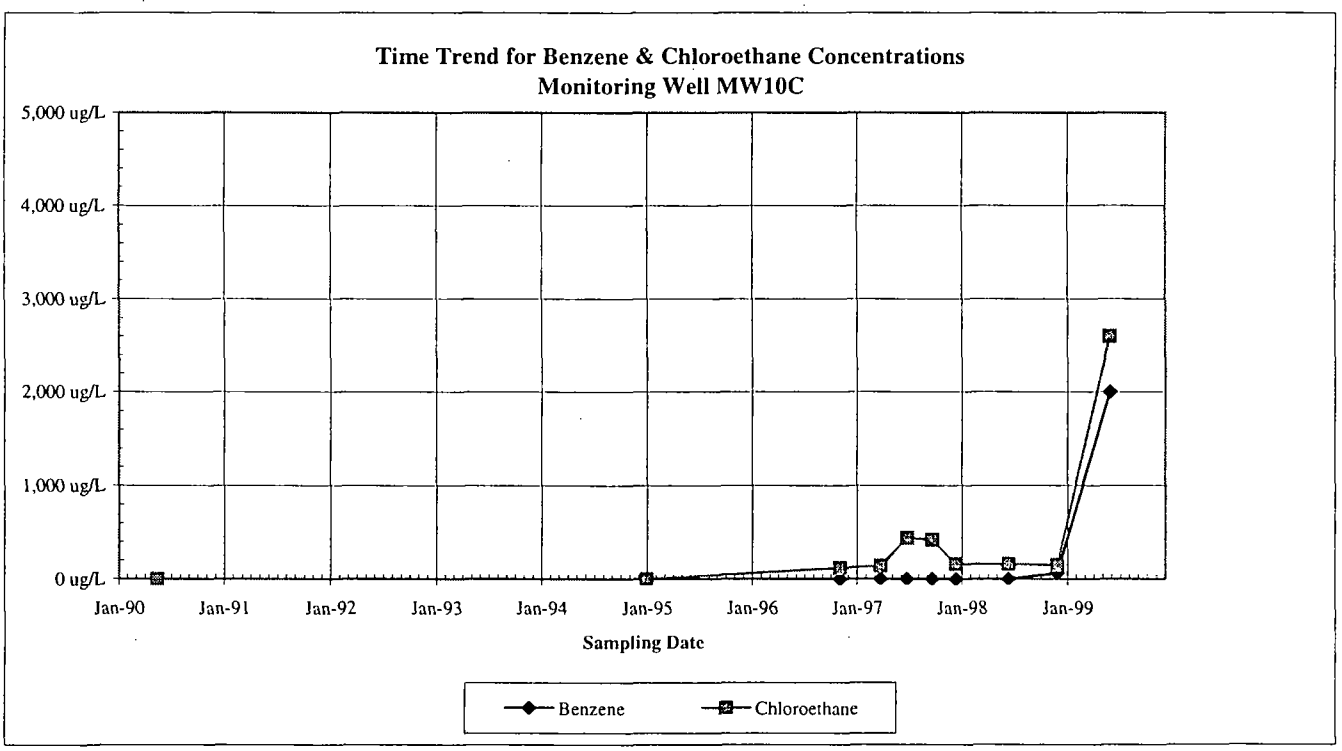
Lower Aquifer Monitoring Well: MW10C

Baseline Groundwater Monitoring
ACS NPL Site

MW10C

Date	Benzene	Chloroethane
August-89		
May-90	BDL	BDL
January-95	BDL	BDL
November-96	BDL	120 ug/L
March-97	BDL	140 ug/L
June-97	BDL	440 ug/L
September-97	BDL	420 ug/L
December-97	BDL	160 ug/L
June-98	BDL	160 ug/L
December-98	66 ug/L	150 ug/L
June-99	2,000 ug/L	2,600 ug/L
October-99		

BDL = Below the Detection Limit



JMK/JMS
J:1252\042\Database
Timetrnd-LA.xls\MW10C

10/26/99

APPENDIX C

VALIDATION NARRATIVE AND LABORATORY REPORTS FROM UPPER AQUIFER

VALIDATION NARRATIVE

Project:	ACS – quarterly GW sampling	**Analysis:**	VOCs
Number:	1252042	**Matrix:**	Water
Validated by:	**TJW**	**Date:**	8/18/99
		SDG:	00002

This narrative summarizes the results of the data validation of twenty groundwater samples from the American Chemical Service (ACS) site. The quarterly groundwater monitoring samples were analyzed by CompuChem for volatile organic compounds (VOCs) following Contract Laboratory Program (CLP) procedures. Data validation was performed using the *USEPA Contract Laboratory Program National Functional Guidelines of Organic Analysis Review (February 1994).* Based on the data validation, the data are valid as qualified and are acceptable for use in site evaluation. The following summarizes the results of the data validation. Please refer to Table 1-2 for a summary of qualified data.

Holding Time: All samples were analyzed within the acceptable holding times.

Instrument Performance: All instrument performance criteria were met.

Calibration: Acetone had a high percent recovery (%R) and percent relative standard deviation (%RSD) in the initial calibration. Acetone is a typical "poor responder" and no data are qualified.

In the continuing calibration (CCAL) on 6/22/99 (20: 57) 2-Butanone, 4-methyl-2-pentanone, and 2-Hexanone had percent differences (%D) greater than acceptable quality control (QC) limits. These three compounds are typical poor responders. The only sample/compound with positive results was FB01-09 / 2-Butanone.

In the CCAL on 6/23/99 (19:24), 2-Butanone, 2-Hexanaone, and 4-methyl-2-pentanone had %D outside QC limits. These three compounds are also typical poor responders. The only positive reslut is for 2-Hexanone in MW48-09DL.

Due to the nature of the compounds ("typical poor responders"), no data are qualified based on the calibrations.

Blanks: Acetone concentrations in 14 samples are estimated due to detection in the method blank. Additionally, 2-Butanone and 2-Hexanone were detected in method blanks The associated positive results are flagged "J," and are listed in Table 1-2.

Both trip blanks had positive results for methylene chloride (4 ug/L) and Acetone (3 ug/L). Positive results for methylene chloride below 20 ug/L are estimated and flagged "J."

The field blank (FB01-09) had positive results for methylene chloride, acetone, chloroform, and 2-butanone. Acetone and 2-butanone were detected in the method blanks and no additional qualifications for these compounds in the field blank are necessary. Methylene chloride is a common laboratory contaminant and positive results have already been estimated and flagged "J" by the laboratory. Chloroform was present in the field blank at 1 ug/L. No positive results for chloroform are reported, and no data are qualified.

Surrogates: All surrogate compounds met the required QC acceptance criteria.

Matrix Spikes: All matrix spike and matrix spike duplicates met the required QC acceptance criteria.

Field duplicates: Methylene chloride and acetone were the only detected compounds in the field duplicates (MW44-09 and MW44-99). The relative percent differences (RPDs) were above the acceptable limits. However, due to detected concentrations in the blanks (see discussion above) and the nature of the compounds (common laboratory contaminants), no data are qualified due to field duplicate RPDs.

Internal Standards: Internal standard areas and retention times were within acceptable QC limits.

Compound Identification: VOC target compound qualitative identification criteria, including relative retention times and mass spectra criteria were acceptable.

System Performance: VOC system performance resolution and peak shape was acceptable.

Sample Results: The overall data quality of the laboratory was acceptable. It appears there may be some common background laboratory contamination (i.e. methylene chloride and acetone). However, the background contamination is not expected to influence data usability.

Table 1-2
Summary of Qualified VOC Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration (µg/L)	Qualifiers	Reason
MW48-09DL	2-hexanone		J	CCAL % D was outside QC limits, and compound was detected in the method blank.
FB01-09	Methylene chloride		J	Detection of compound in trip blank.
	2-butanone		J	CCAL %D was outside QC limits, and compound detected in method blank.
	acetone		J	Compound detected in the method blank.
TB01-09	Acetone		J	Compound detected in the method blank.
MW18-09	Acetone		J	Compound detected in the method blank.
	methylene chloride		J	Compound detected in the trip blank.
MW38-09	Acetone		J	Compound detected in the method blank.
	methylene chloride		J	Compound detected in the trip blank.
MW39-09	Acetone		J	Compound detected in the method blank.
	methylene chloride		J	Compound detected in the trip blank.
MW28-09	Acetone		J	Compound detected in the method blank.
	methylene chloride		J	Compound detected in the trip blank.
MW31-09	Acetone		J	Compound detected in the method blank.
	methylene chloride		J	Compound detected in the trip blank.
MW32-09	Acetone		J	Compound detected in the method blank.
	methylene chloride		J	Compound detected in the trip blank.
MW54R-09	Acetone		J	Compound detected in the method blank.
	methylene chloride		J	Compound detected in the trip blank.
MW55-09	Acetone		J	Compound detected in the method blank.
	methylene chloride		J	Compound detected in the trip blank.
MW44-09	Acetone		J	Compound detected in the method blank, and duplicate RPDs above QC limits.
	methylene chloride		J	Compound detected in the trip blank, and duplicate RPDs above QC limits.
MW4D-09	Acetone		J	Compound detected in the method blank.
	methylene chloride		J	Compound detected in the trip blank.
MW-42-09	Acetone		J	Compound detected in the method blank.
	methylene chloride		J	Compound detected in the trip blank.

Table 1-2
Summary of Qualified VOC Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration (µg/L)	Qualifiers	Reason
MW41-09	Methylene chloride		J	Compound detected in the trip blank.
MW44-99	Acetone		J	Compound detected in the method blank, and duplicate RPDs above QC limits.
	methylene chloride		J	Compound detected in the trip blank, and duplicate RPDs above QC limits.
MW08-09	Methylene chloride		J	Compound detected in the trip blank.
MW48-09	Methylene chloride		J	Compound detected in the trip blank.

J Data are considered estimated

VALIDATION NARRATIVE

Project:	ACS – quarterly GW sampling	**Analysis:**	SVOCs
Number:	1252042	**Matrix:**	Water
Validated by:	**TJW**	**Date:**	8/18/99
		SDG:	00002

This narrative summarizes the results of the data validation of sixteen groundwater samples from the American Chemical Service (ACS) site. The quarterly groundwater monitoring samples were analyzed by CompuChem for semi-volatile organic compounds (SVOCs) following Contract Laboratory Program (CLP) procedures. Data validation was performed using the *USEPA Contract Laboratory Program National Functional Guidelines of Organic Analysis Review (February 1994).* Based on the data validation, the data are valid as qualified and are acceptable for use in site evaluation. The following summarizes the results of the data validation. Please refer to Table 1-1 for a summary of qualified data.

Holding Time: Eleven of the sixteen samples were originally extracted within holding times. Due to poor surrogate recoveries and internal standard responses in the method blank extracted with these samples, these eleven samples had to be re-extracted. The re-extraction was performed outside of holding time requirements. The re-extracted data is technically more accurate and will be considered the proper results with qualifications for holding times. The remaining five samples were extracted and analyzed within acceptable holding times.

Positive results for the re-extracted data is estimated and flagged "J." Non-detected results for the re-extracted data is estimated "UJ."

Instrument Performance: All SVOC instrument tuning criteria were acceptable.

Calibration: In the initial calibration related to samples MW48-09 and MW38-09, four compounds had percent relative standard deviations (%RSD) above the acceptable limit. No positive results were reported for these four compounds, and no data are qualified.

In the continuing calibrations several compounds were reported with percent differences (%D) above the acceptable limits. None of the compounds had positive results in the affected samples, and no data are qualified.

Blanks: One internal standard (Perylene-d12) and five surrogates were outside acceptance limits in the method blank (lab ID: SBLKDS) associated with the following ten samples: MW40-09, MW31-09, MW32-09, MW41-09, MW42-09, MW44-09, MW44-99, MW54-09, MW55-09, and MW08-09. These samples were re-extracted and a new method blank was re-analyzed. One compound, bis (2-Ethylhexyl) phthalate, was detected at a concentration of 1 ug/L in the method blank associated with the re-extracted samples. No positive results for this compound were reported, and no data are qualified.

One compound, Di-n-butylphthalate, was detected at a concentration of 1 ug/L in the method blank associated with the following samples: MW38-09RE, MW18-09RE, MW48-09 (diluted and undiluted), FB01-09, and MW28-09. No positive results for this compound were reported, and no data are qualified.

One compound, bis (2-Ethylhexyl) phthalate, was detected at a concentration of 1 ug/L in the method blank associated with sample MW39-09RE. No positive results for this compound were reported, and no data are qualified.

In other method blanks, several tentatively identified compounds (TICs) were identified. No data is qualified due to TICs in the method blanks.

The field blank (FB01-09) had a positive result for bis (2-Ethylhexyl) phthalate at a concentration of 2 ug/L. Samples results for this compound less than 10 ug/L are estimated and flagged "J."

Surrogates: All surrogate recoveries for all samples and blanks (re-extracted when applicable) are within quality control (QC) limits with the exception of two surrogates in MW38-09RE. One surrogate relates to the base/neutral SVOCs, and one surrogate relates to the acid SVOCs. No data in this sample is qualified because at least two surrogates from each fraction of SVOCs must be outside QC limits in order to qualify data.

Matrix Spikes: Sample MW42-09 was submitted with extra volume for use as the matrix spike (MS) and matrix spike duplicate (MSD). The MS/MSD recoveries for 4-Nitrophenol and Pentachlorophenol were high. According to the validation guidance document, data is not qualified on MS/MSD data alone.

Field duplicates: In the field duplicates (MW44-09RE/MW44-99RE), the only compound detected was bis (2-Ethylhexyl) phthalate in MW44-09RE. The relative percent difference (RPD) is approximately 200%, which is above acceptable limits. The detected compound is considered estimated, and is flagged "J."

Internal Standards: Responses from internal standards in two samples require that some data be qualified and rejected. In sample MW38-09RE, the response for internal standard Perylene-d12 is below 10% of the continuing calibration response. Compounds associated with Perylene-d12 in MW38-09RE are rejected. Additionally in the analysis of MW38-09RE, the response for the internal standard Acenaphthene-d10 is between 10% and 50% of the continuing calibration response. Compounds associated with Acenaphthene-d10 in MW38-09RE are qualified as estimated and flagged "J" for positive results and "UJ" for non-detected results.

In the analysis of sample MW18-09RE, the response for internal standard Perylene-d12 is between 10% and 50% of the continuing calibration response. Compounds associated with Perylene-d12 in MW18-09 are qualified as estimated and flagged "J" for detected results and "UJ" for non-detected results.

Compound Identification: SVOC target compound qualitative identification criteria, including relative retention times and mass spectra criteria were acceptable.

System Performance: SVOC system performance resolution and peak shape was acceptable.

Sample Results: Generally, data quality by the laboratory was acceptable. Although QC problems encountered during the validation procedures required some data to be rejected, these qualifications are not expected to drastically influence data usability. QC issues discovered during validation of this data will be addressed with the laboratory and specific corrective actions will be outlined to reduce the likelihood of such QC issues in the future.

Table 1-1
Summary of Qualified SVOC Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration (µg/L)	Qualifiers	Reason
MW38-09RE	2,4,6-Trichlorophenol	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	2,4,5-Trichlorophenol	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	2-Chloroaphthalene	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	2-Nirtoaniline	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	Acenaphthylene	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	2,6-Dinitrotoulene	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	3-Nitroaniline	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	Acenaphthene	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	2,4-Dinitrophenol	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	4-Nitrophenol	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	Dibenzofuran	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	2,4-Dinitrotoulene	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	Diethylphthalate	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	4-Chlorophenyl-phenylether	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	Fluorene	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	4-Nitroaniline	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	Benzo(b)fluoranthene	<10	R	Internal standard (Perylene-d12) below 10% of the 12 hour standard
MW38-09RE	Benzo(k)fluoranthene	<10	R	Internal standard (Perylene-d12) below 10% of the 12 hour standard
MW38-09RE	Benzo (a) pyrene	<10	R	Internal standard (Perylene-d12) below 10% of the 12 hour standard
MW38-09RE	Dibenzo (a,h) anthracene	<10	R	Internal standard (Perylene-d12) below 10% of the 12 hour standard
MW38-09RE	Benzo (g,h,i) perylene	<10	R	Internal standard (Perylene-d12) below 10% of the 12 hour standard
MW18-09RE	Benzo(b)fluoranthene	<10	UJ	Internal standard (Perylene-d12) between 10% and 50% of the 12 hour standard
MW18-09RE	Benzo(k)fluoranthene	<10	UJ	Internal standard (Perylene-d12) between 10% and 50% of the 12 hour standard
MW18-09RE	Benzo (a) pyrene	<10	UJ	Internal standard (Perylene-d12) between 10% and 50% of the 12 hour standard
MW18-09RE	Dibenzo (a,h) anthracene	<10	UJ	Internal standard (Perylene-d12) between 10% and 50% of the 12 hour standard
MW18-09RE	Benzo (g,h,i) perylene	<10	UJ	Internal standard (Perylene-d12) between 10% and 50% of the 12 hour standard
FB01-09	Bis (2-Ethylhexyl) phthalate	2	J	Below the reporting limit. Therefore, the concentration is estimated.
MW44-09RE	Bis (2-Ethylhexyl) phthalate	6	J	Below the reporting limit, present in the field blank, Duplicate RPDs are above

Table 1-1
Summary of Qualified SVOC Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration (µg/L)	Qualifiers	Reason
				acceptance limits, and holding time was exceeded. Therefore, the concentration is estimated.
MW42-09RE	Bis (2-Ethylhexyl) phthalate	2	J	Below the reporting limit, present in the field blank, and holding time was exceeded. Therefore, the concentration is estimated.
MW55-09RE	Bis (2-Ethylhexyl) phthalate	2	J	Below the reporting limit, present in the field blank, and holding time was exceeded. Therefore, the concentration is estimated.
MW32-09RE	Bis (2-Ethylhexyl) phthalate	2	J	Below the reporting limit, present in the field blank, and holding time was exceeded. Therefore, the concentration is estimated.
MW31-09RE	Bis (2-Ethylhexyl) phthalate	2	J	Below the reporting limit, present in the field blank, and holding time was exceeded. Therefore, the concentration is estimated.
MW40-09RE	Bis (2-Ethylhexyl) phthalate	1	J	Below the reporting limit, present in the field blank, and holding time was exceeded. Therefore, the concentration is estimated.
MW28-09	Bis (2-Ethylhexyl) phthalate	2	J	Below the reporting limit and present in the field blank. Therefore, the concentration is estimated.

The following is a list of samples which are qualified due to re-extraction outside holding times. No positive results were reported, other than those listed above. Therefore, all results are qualified as estimated and flagged "UJ."

MW40-09RE	MW55-09RE
MW31-09RE	MW44-99RE
MW39-09RE	MW54-09RE
MW32-09RE	MW44-09RE
MW41-09RE	MW42-09RE
MW08-09RE	

J Data are considered estimated
UJ The compound was analyzed for, but not detected. The reported detection limit is estimated because quality control criteria were not met.
R The sample results are rejected (analyte may or may not be present) due to gross deficiencies in quality control criteria. Any reported value is unusable.
Sample Ids with an "RE" at the end are the results for the re-extracted analyses.

VALIDATION NARRATIVE

Project:	ACS – quarterly GW sampling	**Analysis:**	Pest/PCBs
Number:	34100	**Matrix:**	Water
Validated by:	**JFW**	**Date:**	10/11/99
		SDG:	00002

This narrative summarizes the results of the data validation of sisxteen groundwater samples from the American Chemical Service (ACS) site. The quarterly groundwater monitoring samples were analyzed by CompuChem for pesticides and polychlorinated biphenyls (PCBs) following Contract Laboratory Program (CLP) procedures. Data validation was performed using the *USEPA Contract Laboratory Program National Functional Guidelines of Organic Analysis Review (February 1994)*. Based on the data validation, the data are valid as qualified and are acceptable for use in site evaluation. The following summarizes the results of the data validation. Please refer to Table 1-1 for a summary of qualified data.

Holding Time: All samples were analyzed within specified holding times.

Instrument Performance: Not applicable.

Calibration: Initial and continuing calibration criteria were met for all analytical sequences.

Blanks: Methods blanks, trip blanks and field blanks were free of target analytes.

Surrogates: All surrogate recoveries for all samples and blanks were within quality control (QC) limits with the exception of tetrachlorometaxylene in MW48-09 and decachlorobiphenyl in FB01-09. Sample ID MW48-09 was not qualified since surrogate recovery was above acceptance limits and the sample was free of target analytes. All analytes in sample ID FB01-09 were qualified with UJ since reporting limits are estimates due to the low surrogate recovery.

Matrix Spikes: Sample ID ACSGWMW44-09 was selected for MS/MSD analyses. All percent recoveries were within acceptance limits.

Field Duplicate: The field duplicate pair, ACSGWMW44-09/ACSGWMW44-99 had no detectable target analytes above the reporting limit.

Internal Standards: Not applicable.

Compound Identification: Pesticides were qualitatively confirmed using second column GC. However, the percent difference between the primary column and secondary column concentrations exceeded 25%. Samples are qualified with a P to denote the lack of quantitative confirmation.

Samples were free of PCBs.

System Performance: GC system performance resolution and peak shape was acceptable.

Sample Results: Laboratory data quality was acceptable. Some pesticides were qualified as estimates since the results were below the reporting limit.

Table 1-1
Summary of Qualified Pesticide and PCB Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration (µg/L)	Qualifiers	Reason
ACSGWMW31-09	Beta-BHC	0.014	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
ACSGWMW31-09	Delta-BHC	0.0013	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
ACSGWMW44-09	Aldrin	0.0018	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
ACSGWMW44-09	Heptachlor epoxide	0.0011	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
ACSGWMW44-09	Gamma-Chlordane	0.0011	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
ACSGWMW44-99	Heptachlor	0.0023	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
ACSGWMW55-09	Beta-BHC	0.016	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
ACSGWMW55-09	Delta-BHC	0.0023	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW18-09	Methoxychlor	0.01	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW28-09	Alpha-chlordane	0.0025	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW38-09	Delta-BHC	0.0056	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW38-09	Heptachlor	0.0083	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW38-09	Dieldrin	0.0074	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW38-09	4,4'-DDE	0.0086	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.

Table 1-1
Summary of Qualified Pesticide and PCB Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration (µg/L)	Qualifiers	Reason
MW38-09	Methoxychlor	0.11	J	Below the reporting limit. Therefore, the concentration is estimated.
MW38-09	Endrin	0.0068	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW38-09	Endosulfan sulfate	0.027	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW38-09	4,4'-DDT	0.068	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW38-09	Endrin Ketone	0.0064	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW38-09	Gamma-chlordane	0.0083	J	Below the reporting limit. Therefore, the concentration is estimated.
MW48-09	Alpha-BHC	0.011	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW48-09	Heptachlor	0.0018	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
FB01-09	All Pest/PCBs	ND	UJ	Surrogate percent recovery below acceptance limits. Therefore, reporting limits are estimates.

J Data are considered estimated
P Greater than 25% difference for detected concentrations between two columns.
UJ The compound was analyzed for, but not detected. The reported detection limit is estimated because quality control criteria were not met.

VALIDATION NARRATIVE

Project:	ACS – quarterly GW sampling	**Analysis:**	Metals
Number:	1252042	**Matrix:**	Water
Validated by:	**TJW**	**Date:**	8/2099
		SDG:	00002

This narrative summarizes the results of the data validation of twenty groundwater samples from the American Chemical Service (ACS) site. The quarterly groundwater monitoring samples were analyzed by CompuChem for metals following Contract Laboratory Program (CLP) procedures. Data validation was performed using the *USEPA Contract Laboratory Program National Functional Guidelines of Inorganic Analysis Review (February 1994)*. Based on the data validation, the data are valid as qualified and are acceptable for use in site evaluation. The following summarizes the results of the data validation. Please refer to Table 1-3 for a summary of qualified data.

Holding Time: All samples were analyzed within the acceptable holding times.

Calibration: Initial and continuing calibrations met the acceptable quality control limits.

Laboratory Control Sample: The laboratory control sample met acceptable quality control limits.

Blanks: Some target metals were detected in the method and calibration blanks. Positive results less than 5 times the concentration of the target metal in the blank are considered not detected, and they are flagged "U."

Matrix Spikes: All matrix spike and matrix spike duplicates met the required quality control acceptance criteria.

Field duplicates: Several compounds detected in the field duplicate samples (MW44-09/MW44-99) had relative percent differences (RPDs) greater than the acceptable limits. Positive results for these compounds are considered estimated, and they are flagged "J."

ICP/AA Quality Control: A serial dilution was performed on sample MW18-09. The serial dilution percent differences for several compounds were above the 10% acceptance limit. However, no positive results for these compounds were reported, and no data are qualified.

Interference check sample recoveries were within the acceptable limits.

The method of standard additions and post-digestion spikes were not required.

Compound Quantitation: Metals target compound qualitative identification criteria were acceptable.

Sample Results: The overall data quality of the laboratory was acceptable. The laboratory narrative indicates that there was a physical or chemical interference in the analyses for potassium. Results for potassium are estimated and flagged "J."

Table 1-3
Summary of Qualified Metals Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration (µg/L)	Qualifiers	Reason
ATMW4D-09	Aluminum	296	U	The compound was detected in the method blank (MB).
	Beryllium	0.29	U	The compound was detected in the method blank (MB).
	Cobalt	0.97	U	The compound was detected in the continuing calibration blank (CCB).
	Copper	2.7	U	The compound was detected in the CCB.
	Lead	2.0	U	The compound was detected in the CCB.
	Nickel	10.4	U	The compound was detected in the CCB.
	Cyanide	4.7	U	The compound was detected in the CCB.
MW12-09	Lead	1.6	U	The compound was detected in the CCB.
MW31-09	Aluminum	34.5	U	The compound was detected in the CCB.
	Arsenic	3.5	U	The compound was detected in the CCB.
	Cobalt	1.4	U	The compound was detected in the CCB.
	Lead	2.6	U	The compound was detected in the CCB.
	Nickel	8.2	U	The compound was detected in the CCB.
	Zinc	1.3	U	The compound was detected in the CCB.
MW32-09	Aluminum	27.7	U	The compound was detected in the CCB.
	Beryllium	0.23	U	The compound was detected in the CCB.
	Cobalt	0.92	U	The compound was detected in the CCB.
	Copper	1.7	U	The compound was detected in the CCB.
	Lead	1.2	U	The compound was detected in the CCB.
	Nickel	0.57	U	The compound was detected in the CCB.
MW40-09	Lead	3.4	U	The compound was detected in the CCB.
MW41-09	Aluminum	99.2	U	The compound was detected in the CCB.
	Antimony	1.4	U	The compound was detected in the method blank (MB).
	Cobalt	1.7	U	The compound was detected in the CCB.
	Copper	4.2	U	The compound was detected in the CCB.
	Lead	1.3	U	The compound was detected in the CCB.
	Nickel	4.7	U	The compound was detected in the CCB.
MW42-09	Arsenic	2.3	U	The compound was detected in the method blank (MB).

Table 1-3
Summary of Qualified Metals Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration (µg/L)	Qualifiers	Reason
	Cobalt	1.4	U	The compound was detected in the CCB.
	Copper	1.7	U	The compound was detected in the CCB.
MW44-09	Arsenic	7.3	U	The compound was detected in the method blank (MB).
	Cobalt	0.51	U	The compound was detected in the CCB.
	Copper	2.3	U	The compound was detected in the CCB.
	Iron	1700	J	Duplicate RPD >20%.
	Nickel	3.1	U	The compound was detected in the CCB.
MW44-99	Aluminum	38.9	U	The compound was detected in the CCB.
	Arsenic	17.2	J	Duplicate RPD >20%.
	Beryllium	0.21	U	The compound was detected in the CCB.
	Chromium	48.2	J	Duplicate RPD >20%.
	Cobalt	0.43	U	The compound was detected in the CCB.
	Copper	4.1	U	The compound was detected in the CCB.
	Iron	5810	J	Duplicate RPD >20%.
	Lead	1.8	U	The compound was detected in the CCB.
	Nickel	5.4	U	The compound was detected in the CCB.
MW54R-09	Aluminum	63.8	U	The compound was detected in the CCB.
	Arsenic	1.8	U	The compound was detected in the CCB.
	Cobalt	1.0	U	The compound was detected in the CCB.
	Copper	1.7	U	The compound was detected in the CCB.
	Lead	2.0	U	The compound was detected in the CCB.
	Nickel	3.2	U	The compound was detected in the CCB.
MW55-09	Aluminum	182	U	The compound was detected in the CCB.
	Arsenic	2.1	U	The compound was detected in the CCB.
	Beryllium	0.26	U	The compound was detected in the CCB.
	Cobalt	1.8	U	The compound was detected in the CCB.
	Copper	5.9	U	The compound was detected in the CCB.
	Lead	2.0	U	The compound was detected in the CCB.
MW8-09	Aluminum	88.5	U	The compound was detected in the CCB.

Table 1-3
Summary of Qualified Metals Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration (µg/L)	Qualifiers	Reason
	Beryllium	0.26	U	The compound was detected in the CCB.
	Cobalt	1.1	U	The compound was detected in the CCB.
	Copper	1.7	U	The compound was detected in the CCB.
	Lead	1.5	U	The compound was detected in the CCB.
	Nickel	3.2	U	The compound was detected in the method blank (MB).
	Zinc	0.97	U	The compound was detected in the CCB.
FB01-09	Aluminum	27.2	U	The compound was detected in the CCB.
	Antimony	1.3	U	The compound was detected in the CCB.
	Beryllium	0.27	U	The compound was detected in the CCB.
	Calcium	58.4	U	The compound was detected in the CCB.
	Cobalt	0.93	U	The compound was detected in the CCB.
	Copper	0.40	U	The compound was detected in the CCB.
	Iron	22.1	U	The compound was detected in the CCB.
	Lead	1.1	U	The compound was detected in the CCB.
	Zinc	2.3	U	The compound was detected in the CCB.
MW18-09	Aluminum	13.3	U	The compound was detected in the CCB.
	Antimony	3.3	U	The compound was detected in the CCB.
	Cadmium	0.94	U	The compound was detected in the CCB.
	Cobalt	2.5	U	The compound was detected in the CCB.
	Copper	3.2	U	The compound was detected in the CCB.
	Vanadium	1.1	U	The compound was detected in the CCB.
MW28-09	Aluminum	265	U	The compound was detected in the CCB.
	Cadmium	0.60	U	The compound was detected in the CCB.
	Cobalt	3.1	U	The compound was detected in the CCB.
	Copper	12.9	U	The compound was detected in the CCB.
	Lead	4.2	U	The compound was detected in the CCB.
	Zinc	4.6	U	The compound was detected in the CCB.
MW38-09	Aluminum	68.4	U	The compound was detected in the CCB.
	Antimony	1.3	U	The compound was detected in the CCB.

Table 1-3
Summary of Qualified Metals Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration (µg/L)	Qualifiers	Reason
	Cadmium	0.45	U	The compound was detected in the CCB.
	Cobalt	5.4	U	The compound was detected in the CCB.
	Copper	13.4	U	The compound was detected in the CCB.
	Lead	1.3	U	The compound was detected in the CCB.
	Nickel	11.7	U	The compound was detected in the CCB.
	Zinc	21.0	U	The compound was detected in the CCB.
MW39-09	Aluminum	25.0	U	The compound was detected in the CCB.
	Beryllium	0.12	U	The compound was detected in the CCB.
	Cadmium	0.74	U	The compound was detected in the CCB.
	Cobalt	1.2	U	The compound was detected in the CCB.
	Copper	0.63	U	The compound was detected in the CCB.
	Lead	1.0	U	The compound was detected in the CCB.
	Vanadium	0.48	U	The compound was detected in the CCB.
MW48-09	Aluminum	119	U	The compound was detected in the CCB.
	Antimony	1.8	U	The compound was detected in the CCB.
	Arsenic	4.0	U	The compound was detected in the CCB.
	Beryllium	0.13	U	The compound was detected in the CCB.
	Cobalt	1.9	U	The compound was detected in the CCB.
	Copper	2.3	U	The compound was detected in the CCB.
	Vanadium	2.0	U	The compound was detected in the CCB.
	Zinc	4.3	U	The compound was detected in the CCB.

J Data are considered estimated
U The analyte is not detected in the sample.

MEMORANDUM

MONTGOMERY WATSON

To:	Trisha Woolslayer, MW	**Date:**	August 24, 1999
From:	Gilbert Dimidjian, MW	**Job No.:**	1252042
Subject:	Data Validation for American Chemical Service (ACS). Griffith, Indiana. June 1999	**SDG:**	003

INTRODUCTION

The following text is based on the validation of water samples collected at American Chemical Service, Inc. in June of 1999.

Nine water samples and two field quality assurance samples were analyzed by CompuChem Laboratories, Cary, North Carolina for the following parameters:

- VOA's by CLP – OLM 3.0
- SVOA's by CLP – OLM 3.0
- Pesticides/PCB's by CLP – OLM 3.0
- Inorganics by CLP – ILM04.0
- Cyanide by CLP – ILM04.0

Data validation was conducted in accordance with procedures specified in *Pre-Design Activities Quality Assurance Project Plan (MW, 1995), National Functional Guidelines for Organic Data Review (USEPA, 1994a), and National Functional Guidelines for Inorganic Data Review (USEPA, 1994b).*

The following field quality control samples were collected during the June 1999 sampling round:

- Two field duplicates: M4S-99 duplicate of M4S-09; and MW06-99 duplicate of MW06-09.

This memorandum contains a narrative summarizing the data quality objectives specified in the work plan, and provides a table of qualified data (Table 1-1 and 1-2) and supporting validation documentation (Attachment A).

SUMMARY

This section describes the quality control parameters reviewed during validation, summarizes the data quality objectives as a result of the validation and provides a summary of the deficiencies and qualification applied. The following paragraphs describe deficiencies that were identified which resulted in qualification of the sample results. Each analysis is separated into sections for clarity.

Volatile Organic Componds

Major Deficiencies: The following paragraphs describe the major deficiencies identified during the validation process.

Holding Time

- Sample MW19-09 was received at a pH of 5, and therefore the sample was required to be analyzed within 7 days. Subsequently, the sample was analyzed 7 days pass the required holding time. All positive results were qualified as an estimate "J" and non-detects were qualified as "UJ".

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

Initial Calibration

- The initial calibration (on 6/20/99; 1249) %RSD for acetone (51.5 percent) were above the control limit of 30 percent. All positive results were qualified as an estimate "J" for acetone.

Continuing Calibration

- The continuing calibration (CS990623B57) for 2-butanone (31.5 percent), 4-methyl-2-pentanone (25.9 percent), and 2-hexanone had a percent difference that exceeded the control limit of ±25 percent. The associated samples were MW50-09, MW19-09, MW45-09, M4S-09, M4S-99, and M15-09. All positive results were qualified as an estimate "J" and non-detects as "UJ".

- The continuing calibration (CS990629A57) for chloromethane (25.9 percent) had a percent difference that exceeded the control limit of ±25 percent. The associated samples were MW14-09, MW09R-09, MW06-99, MW06-09, and MW10C-09. All positive results were qualified as an estimate "J" and non-detects as "UJ".

- The continuing calibration (CS990629B57) for 2-butanone (30.4 percent) and 1,1,2,2-tetrachloroethane (31.3 percent) had a percent difference that exceeded the control limit of ±25 percent. No qualification was required because no samples were associated with this calibration.

Semi-Volatile Organic Compounds

Major Deficiencies: The following paragraphs describe the major deficiencies identified during the validation process.

Holding Time

- Samples MW19-09RE, MW45-09RE, and MW50-09RE were extracted pass holding times (20 days). All positive results were qualified as estimate "J" and non-detects as "UJ". These were reanalysis samples.

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

Initial Calibration

- The initial calibration (on 6/30/99; 2221) %RSD for 2,4-dinitrophenol (36.1 percent) exceeded the control limit of 30 percent. All positive results were qualified as estimate "J" and non-detects as "UJ". The associated samples were MW50-09RE, MW19-09RE, and MW45-09RE.

- The initial calibration (on 7/20/99; 1006) %RSD for 2,4-dinitrophenol (33.6 percent) exceeded the control limit of 30 percent. No qualification was required because no samples were associated with this calibration.

Continuing Calibration

- Continuing calibration HG990622A66 had a percent difference for 1-chloropropane (26.3 percent), nitrobenzene (34.1 percent), 4-nitrophenol (30 percent), pentachlorophenol (38.7 percent), and 3,3-dichlorobenzidine (40.4 percent) that exceeded the control limit of 25 percent. All positive results were qualified as estimate "J" and non-detects "UJ". The associated samples included MW09R-09, MW06-99, MW14-09, MW06-09, and MW10C-09.

- Continuing calibration HG990709A66 had a percent difference for 2-methylphenol (27.1 percent), n-nitroso-di-n-propylamine (27.6 percent), 2,6-dinitrotoluene (26.6 percent), 2,4-dinitrophenol (28.6 percent), and 2,4-dinitrotoluene (31.4 percent) that exceeded the control limit of 25 percent. All positive results were qualified as estimate "J" and non-detects "UJ". The associated samples included MW50-09RE, MW19-09RE, and MW45-09RE.

- Continuing calibration HG990706B70 had a percent difference for 2-methylnaphthalene (26.1 percent), 4-nitroaniline (27.6 percent), carbazole (36.5 percent), and fluoranthene (32.4 percent) that exceeded the control limit of 25 percent. All positive results were qualified as an estimate "J" and non-detects "UJ". The associated samples were M4S-09, M4S-99, and MW15-09.

- Continuing calibration HG990707A70 had a percent difference for pentachlorophenol (36.4 percent), 2-methylphenol (25.5 percent), 4-methylphenol (29.5 percent), nitrobenzene (27.1 percent), hexachlorocyclopentadiene (39.9 percent), and 2,4-dinitrophenol (38.6 percent) that exceeded the control limit of 25 percent. All positive results were qualified as an estimate "J" and non-detects "UJ". The associated sample includes M4S-99DL (dilution).

Samples MW19-09, MW45-09, and MW50-09 were initially extracted within the required holding time, along with a method blank. The method blank was analyzed prior to the samples to determine if all QC criteria and contamination criteria had been met. In the analysis of the blank (SBLKDS), one or more of the internal standards and one or more of the surrogates failed acceptance criteria and many extraneous peaks were observed on the chromatogram. Because the QC criteria failed for this blank, the associated samples were re-extracted with another method blank. The repeat extractions, however, were performed outside of the required holding time. According to the laboratory, the failing responses and recoveries can be attributed to a possible laboratory error during the extraction procedure. The data for the initial and repeat (RE) extracts of the samples were reported by the laboratory. The results were then compared to determine the most representative data in table 1-3. It was determined that the re-analysis results were more representative and, therefore, would be used for reporting and validation purposes.

Pesticides / PCBs

Major Deficiencies: There were no major deficiencies identified during the validation process.

Minor Deficiencies: There were no minor deficiencies identified which required qualification. Please refer to the Data Quality Objectives section for additional comments.

Inorganics / Cyanide

Major Deficiencies: The following paragraphs describe the major deficiencies identified during the validation process.

Holding Time

- Samples MW50-09, MW19-09, MW45-09, M4S-09, M4S-99, MW15-09, MW14-09, MW09R-09, MW06-99, MW-06-09, and MW10C-09 which were analyzed for mercury exceeded the holding time requirement of 28 days from one to five days. All positive results were qualified as "J" and all non-detects as "UJ" with a low bias.

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

Serial Dilution

- The percent difference for potassium (18.5 percent) exceeded the control limit of ±10% in sample MW09R-09L. All positive results were qualified as estimated "J".

Several samples contained detected concentrations of target analytes at concentrations between the instrument detection limit (IDL) and the contract required detection limit (CRDL). These were qualified as "B" by the laboratory, but during the validation process these qualifications were changed to a "J" flag which indicates an estimate. Table 1-2 summarizes the affected samples and analytes.

DATA QUALITY OBJECTIVES

The following is a summary of the data quality objectives that were evaluated during the data validation process.

Reporting Limits: Reporting limits were met for all analyses with the following exception.

- For VOCs: Reporting limits were met with the exception of cases in which dilution was necessary. Original, out-of-calibration range data have been included for confirmation of original detection limits and detections, when available. Sample MW45-09, M4S-09, M4S-99, MW06-99, and MW10C-09 was only analyzed as a dilution due to a high analyte concentration; therefore, no original out of calibration range data was included with this sample package. No data were qualified as a result.

- For SVOCs: Less than the method specified amount of raw sample was used for the extractions of some of the samples. The lower sample volumes resulted in slightly higher detection limits for these samples. The laboratory was contacted and they explained that the volume in the sample bottles they received were short, so they had to compensate and bring it back to 1mL. Original, out-of-calibration range data have been included for confirmation of original detection limits and detections, when available.

Accuracy

Laboratory Control Sample: Validation of the LCS was not performed for the organic analyses because the data was not provided by the laboratory and is not required per OLM 3.0. The LCS for the inorganic analyses were within control limits and analyzed at the correct frequency.

Surrogates: The surrogate results were within laboratory specified limits with the following exceptions.

- For SVOCs: Surrogates nitrobenzene-d5 (115 percent) and 2,4,6-tribromophenol (126 percent) had recoveries above the upper control limit with a high bias. All positive results were qualified as an estimate "J". The associated sample was MW10C-09.

- For Pesticides/PCBs: Surrogate recoveries for TCX exceeded the upper control limits of 30-150 percent. No qualification was required because the high recovery was only present in the 2nd column which indicates co-elution and a high bias. The associated samples were MW06-99 and MW06-09.

Matrix Spike / Matrix Spike Duplicate: The MS/MSD results were within laboratory specified limits with the following exceptions.

- For SVOCs: MS/MSD recoveries exceeded the upper control limits, with a high bias. No qualification was required.

- For Pesticides/PCBs: MS/MSD RPD exceeded the control limits for various compounds, which represented a high bias. MS/MSD recoveries were within control limits and surrogate recoveries were acceptable. No qualification was required.

- For Inorganics / Cyanide: Spike sample MW09R-09S had recoveries for selenium (130 percent) that exceeded the upper control limits. All positive results were qualified as estimated "J".

Precision

Field Duplicates:

- For VOCs: RPDs were calculated for benzene (5.7 percent) and chloromethane (6.5 percent) in field duplicate pair M4S-09 and M4S-99, and for chloromethane (24.7 percent), acetone (96.3 percent), and benzene (28.6 percent) in field duplicate pair MW06-09 and MW06-99.

- For SVOCs: RPDs were calculated for bis(2-chloroethyl) ether (29.6 percent) in field duplicate pair M4S-09 and M4S-99, and for bis(2-chloroethyl) ether (7.4 percent) in field duplicate pair MW06-09 and MW06-99.

- For Pesticides / PCBs: RPDs were calculated for beta-BHC (139.6 percent) in field duplicate pair MW06-09 and MW06-99.

- For Inorganics / Cyanide: RPDs were calculated for barium (22.6 percent), iron (20.9 percent), and sodium (23.6 percent) in field duplicate pair M4S-09 and M4S-99.

There are no qualification requirements for field QC samples exceeding limits.

Laboratory Duplicate Sample: For inorganics / cyanide: Lab duplicate MW09R-09D had RPDs which exceeded the control limit ranges for beryllium, cadmium, and zinc. All positive results were qualified as estimated "J". The associated samples were MW50-09, MW19-09, MW45-09, M4S-09, M4S-99, MW15-09, MW14-09, MW09R-09, MW06-99, MW-06-09, and MW10C-09.

The overall results were acceptable, indicating that sampling and analytical precision objectives were met for the sampling event.

Completeness

The data package was complete for the requested analyses. No results were considered unusable. The completeness was 100 percent, which meets the completeness objective of 95 percent.

Representativeness:

No field blank samples were associated with this SDG.

Comparability:

All data were reported in similar units to facilitate comparison of results within the data packages. Samples arrived at the laboratory at 4°C, which is within the limits of 2-6°C. It should be noted that several samples were analyzed by EPA method CLP-VOA OLM3.0, CLP-SVOA OLM3.0, and CLP-Inorganics OLM 4.0 were analyzed after the recommended holding time. Because of the holding time exceedence, comparability might be affected.

As a result of this evaluation, all data within this SDG for wells at American Chemical Service are of known and acceptable quality in relation to the DQOs of this project. Although significant qualification were required due to holding time violation, the data are considered usable as qualified for the intended purposes. Table 1-1 and 1-2 summarizes the validation and laboratory qualifications for this sampling event.

REFERENCES

Pre-Design Activities Quality Assurance Project Plan, American Chemical Service, Inc. NPL Site, Griffith Indiana (MW, 1995).

National Functional Guidelines for Organic Data Review (USEPA, 1994a).

National Functional Guidelines for Inorganic Data Review (USEPA, 1994b).

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SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
944694	MW50-09 (VOC)	2-Butanone	10	µg/L	UJ	High	Continuing Calibration >CL
		4-Methyl-2-Pentanone	10	µg/L	UJ	High	Continuing Calibration >CL
		2-Hexanone	10	µg/L	UJ	High	Continuing Calibration >CL
		Acetone	2	µg/L	JB	High	IC RSD > CL / blank contamination
	(SVOC)	Phenol	10	µg/L	UJ	Low	Holding Time Missed
		bis (2-Chloroethyl) ether	10	µg/L	UJ	Low	Holding Time Missed
		2-Chlorophenol	10	µg/L	UJ	Low	Holding Time Missed
		1,3-Dichlorobenzene	10	µg/L	UJ	Low	Holding Time Missed
		1,4-Dichlorobenzene	10	µg/L	UJ	Low	Holding Time Missed
		1,2-Dichlorobenzene	10	µg/L	UJ	Low	Holding Time Missed
		2-Methylphenol	10	µg/L	UJ	Low	Holding Time Missed / CC > CL
		2,2-oxybis (1-Chloropropane)	10	µg/L	UJ	Low	Holding Time Missed
		4-Methylphenol	10	µg/L	UJ	Low	Holding Time Missed
		N-Nitroso-di-n-propylamine	10	µg/L	UJ	Low	Holding Time Missed / CC > CL
		Hexachloroethane	10	µg/L	UJ	Low	Holding Time Missed
		Nitrobenzene	10	µg/L	UJ	Low	Holding Time Missed
		Isophorone	10	µg/L	UJ	Low	Holding Time Missed
		2-Nitrophenol	10	µg/L	UJ	Low	Holding Time Missed
		2,4-Dimethylphenol	10	µg/L	UJ	Low	Holding Time Missed
		bis (2-Chloroethoxy) methane	10	µg/L	UJ	Low	Holding Time Missed
		2,4-Dichlorophenol	10	µg/L	UJ	Low	Holding Time Missed
		1,2,4-Trichlorobenzene	10	µg/L	UJ	Low	Holding Time Missed
		Napthalene	10	µg/L	UJ	Low	Holding Time Missed
		4-Chloroaniline	10	µg/L	UJ	Low	Holding Time Missed
		Hexachlorobutadiene	10	µg/L	UJ	Low	Holding Time Missed
		4-Chloro-3-methylphenol	10	µg/L	UJ	Low	Holding Time Missed
		2-Methylnapthalene	10	µg/L	UJ	Low	Holding Time Missed
		Hexachlorocyclopentadiene	10	µg/L	UJ	Low	Holding Time Missed
		2,4,6-Trichlorophenol	10	µg/L	UJ	Low	Holding Time Missed

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW50-09 (SVOC)	2,4,5-Trichlorophenol	26	µg/L	UJ	Low	Holding Time Missed
		2-Chloronapthalene	10	µg/L	UJ	Low	Holding Time Missed
		2-Nitroaniline	26	µg/L	UJ	Low	Holding Time Missed
		Dimethylphthalate	10	µg/L	UJ	Low	Holding Time Missed
		Acenaphthylene	10	µg/L	UJ	Low	Holding Time Missed
		2,6-Dinitrotoluene	10	µg/L	UJ	Low	Holding Time Missed / CC > CL
		3-Nitroaniline	26	µg/L	UJ	Low	Holding Time Missed
		Acenaphthene	10	µg/L	UJ	Low	Holding Time Missed
		2,4-Dinitrophenol	26	µg/L	UJ	Low	Holding Time Missed / CC > CL / IC %difference >CL
		4-Dinitrophenol	26	µg/L	UJ	Low	Holding Time Missed
		Dibenzofuran	10	µg/L	UJ	Low	Holding Time Missed
		2,4-Dinitrotoluene	10	µg/L	UJ	Low	Holding Time Missed / CC > CL
		Diethylphthalate	10	µg/L	UJ	Low	Holding Time Missed
		4-Chlorophenyl-phenylether	10	µg/L	UJ	Low	Holding Time Missed
		Fluorene	10	µg/L	UJ	Low	Holding Time Missed
		4-Nitroaniline	26	µg/L	UJ	Low	Holding Time Missed
		4,6-Dinitro-2-methylphenol	26	µg/L	UJ	Low	Holding Time Missed
		N-nitrosodiphenylamine	10	µg/L	UJ	Low	Holding Time Missed
		4-Bromophenyl-phenylether	10	µg/L	UJ	Low	Holding Time Missed
		Hexachlorobenzene	10	µg/L	UJ	Low	Holding Time Missed
		Pentachlorophenol	26	µg/L	UJ	Low	Holding Time Missed
		Phenanthrene	10	µg/L	UJ	Low	Holding Time Missed
		Anthracene	10	µg/L	UJ	Low	Holding Time Missed
		Carbazole	10	µg/L	UJ	Low	Holding Time Missed
		Di-n-butylphthalate	10	µg/L	UJ	Low	Holding Time Missed
		Fluoranthene	10	µg/L	UJ	Low	Holding Time Missed
		Pyrene	10	µg/L	UJ	Low	Holding Time Missed
		Butylbenzylphthalate	10	µg/L	UJ	Low	Holding Time Missed
		3,3-Dichlorobenzidine	10	µg/L	UJ	Low	Holding Time Missed

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SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW50-09 (SVOC)	Benzo (a) anthracene	10	µg/L	UJ	Low	Holding Time Missed
		Chrysene	10	µg/L	UJ	Low	Holding Time Missed
		bis (2-Ethylhexyl) phthalate	10	µg/L	UJ	Low	Holding Time Missed
		Di-n-octylphthalate	10	µg/L	UJ	Low	Holding Time Missed
		Benzo (b) fluoranthene	10	µg/L	UJ	Low	Holding Time Missed
		Benzo (k) fluoranthene	10	µg/L	UJ	Low	Holding Time Missed
		Benzo (a) pyrene	10	µg/L	UJ	Low	Holding Time Missed
		Ideno (1,2,3-cd) pyrene	10	µg/L	UJ	Low	Holding Time Missed
		Dibenzo (a,h) anthracene	10	µg/L	UJ	Low	Holding Time Missed
		Benzo (g,h,i) perylene	10	µg/L	UJ	Low	Holding Time Missed
	(Pesticide/PCB)	beta-BHC	0.0090	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		delta-BHC	0.00098	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		Methoxychlor	0.0063	µg/L	JPB	NDT	>25% diff. between two GC columns / blank contam. / below RL
944711	MW19-09 (VOC)	Chloromethane	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		Bromomethane	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		Vinyl Chloride	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		Chloroethane	14	µg/L	J	Low	Missed Holding Time for pH > 2
		Methylene Chloride	3	µg/L	J	Low	Missed Holding Time for pH > 2 / below RL
		Acetone	19	µg/L	JB	Low	Missed HT for pH > 2 / IC RSD >CL / blank contamination
		Carbon Disulfide	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		1,1-Dichloroethene	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		1,1-Dichloroethane	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		Chloroform	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		1,2-Dichloroethane	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		2-Butanone	2	µg/L	JB	Low	Missed HT for pH > 2 / blnk contamin. / CC > CL / below RL
		1,1,1-Trichloroethane	10	µg/L	UJ	Low	Missed Holding Time for pH > 2

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW19-09 (VOC)	Carbon Tetrachloride	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		Bromodichloromethane	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		1,2-Dichloropropane	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		cis-1,3-Dichloropropene	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		Trichloroethene	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		Dibromochloromethane	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		1,1,2-Trichloroethane	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		Benzene	7	µg/L	J	Low	Missed Holding Time for pH > 2 / below RL
		trans-1,3-Dichloropropene	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		Bromoform	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		4-Methyl-2-Pentanone	3	µg/L	JB	Low	Missed HT for pH > 2 / blnk contamin. / CC > CL / below RL
		2-Hexanone	3	µg/L	JB	Low	Missed HT for pH > 2 / blnk contamin. / CC > CL / below RL
		Tetrachloroethene	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		1,1,2,2-Tetrachloroethane	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		Toluene	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		Chlorobenzene	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		Ethylbenzene	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		Styrene	0	µg/L	UJ	Low	Missed Holding Time for pH > 2
		Xylene (total)	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		1,2-Dichloroethene (total)	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
	(SVOC)	Phenol	10	µg/L	UJ	Low	Missed Holding Time
		bis (2-Chloroethyl) ether	23	µg/L	J	Low	Missed Holding Time
		2-Chlorophenol	10	µg/L	UJ	Low	Missed Holding Time
		1,3-Dichlorobenzene	10	µg/L	UJ	Low	Missed Holding Time
		1,4-Dichlorobenzene	10	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichlorobenzene	10	µg/L	UJ	Low	Missed Holding Time
		2-Methylphenol	10	µg/L	UJ	Low	Holding Time Missed / CC > CL

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW19-09 (SVOC)	2,2-oxybis (1-Chloropropane)	4	µg/L	J	Low	Missed Holding Time / below RL
		4-Methylphenol	10	µg/L	UJ	Low	Missed Holding Time
		N-Nitroso-di-n-propylamine	10	µg/L	UJ	Low	Holding Time Missed / CC > CL
		Hexachloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Nitrobenzene	10	µg/L	UJ	Low	Missed Holding Time
		Isophorone	10	µg/L	UJ	Low	Missed Holding Time
		2-Nitrophenol	10	µg/L	UJ	Low	Missed Holding Time
		2,4-Dimethylphenol	10	µg/L	UJ	Low	Missed Holding Time
		bis (2-Chloroethoxy) methane	10	µg/L	UJ	Low	Missed Holding Time
		2,4-Dichlorophenol	10	µg/L	UJ	Low	Missed Holding Time
		1,2,4-Trichlorobenzene	10	µg/L	UJ	Low	Missed Holding Time
		Napthalene	10	µg/L	UJ	Low	Missed Holding Time
		4-Chloroaniline	10	µg/L	UJ	Low	Missed Holding Time
		Hexachlorobutadiene	10	µg/L	UJ	Low	Missed Holding Time
		4-Chloro-3-methylphenol	10	µg/L	UJ	Low	Missed Holding Time
		2-Methylnapthalene	10	µg/L	UJ	Low	Missed Holding Time
		Hexachlorocyclopentadiene	10	µg/L	UJ	Low	Missed Holding Time
		2,4,6-Trichlorophenol	10	µg/L	UJ	Low	Missed Holding Time
		2,4,5-Trichlorophenol	25	µg/L	UJ	Low	Missed Holding Time
		2-Chloronapthalene	10	µg/L	UJ	Low	Missed Holding Time
		2-Nitroaniline	25	µg/L	UJ	Low	Missed Holding Time
		Dimethylphthalate	10	µg/L	UJ	Low	Missed Holding Time
		Acenaphthylene	10	µg/L	UJ	Low	Missed Holding Time
		2,6-Dinitrotoluene	10	µg/L	UJ	Low	Holding Time Missed / CC > CL
		3-Nitroaniline	25	µg/L	UJ	Low	Missed Holding Time
		Acenaphthene	10	µg/L	UJ	Low	Missed Holding Time
		2,4-Dinitrophenol	25	µg/L	UJ	Low	HT Missed/ CC %Difference > CL / IC % Difference>CL
		4-Dinitrophenol	25	µg/L	UJ	Low	Missed Holding Time

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW19-09 (SVOC)	Dibenzofuran	10	µg/L	UJ	Low	Missed Holding Time
		2,4-Dinitrotoluene	10	µg/L	UJ	Low	Holding Time Missed / CC > CL
		Diethylphthalate	10	µg/L	UJ	Low	Missed Holding Time
		4-Chlorophenyl-phenylether	10	µg/L	UJ	Low	Missed Holding Time
		Fluorene	10	µg/L	UJ	Low	Missed Holding Time
		4-Nitroaniline	25	µg/L	UJ	Low	Missed Holding Time
		4,6-Dinitro-2-methylphenol	25	µg/L	UJ	Low	Missed Holding Time
		N-nitrosodiphenylamine	10	µg/L	UJ	Low	Missed Holding Time
		4-Bromophenyl-phenylether	10	µg/L	UJ	Low	Missed Holding Time
		Hexachlorobenzene	10	µg/L	UJ	Low	Missed Holding Time
		Pentachlorophenol	25	µg/L	UJ	Low	Missed Holding Time
		Phenanthrene	10	µg/L	UJ	Low	Missed Holding Time
		Anthracene	10	µg/L	UJ	Low	Missed Holding Time
		Carbazole	10	µg/L	UJ	Low	Missed Holding Time
		Di-n-butylphthalate	10	µg/L	UJ	Low	Missed Holding Time
		Fluoranthene	10	µg/L	UJ	Low	Missed Holding Time
		Pyrene	10	µg/L	UJ	Low	Missed Holding Time
		Butylbenzylphthalate	10	µg/L	UJ	Low	Missed Holding Time
		3,3-Dichlorobenzidine	10	µg/L	UJ	Low	Missed Holding Time
		Benzo (a) anthracene	10	µg/L	UJ	Low	Missed Holding Time
		Chrysene	10	µg/L	UJ	Low	Missed Holding Time
		bis (2-Ethylhexyl) phthalate	1	µg/L	J	Low	Missed Holding Time / below RL
		Di-n-octylphthalate	10	µg/L	UJ	Low	Missed Holding Time
		Benzo (b) fluoranthene	10	µg/L	UJ	Low	Missed Holding Time
		Benzo (k) fluoranthene	10	µg/L	UJ	Low	Missed Holding Time
		Benzo (a) pyrene	10	µg/L	UJ	Low	Missed Holding Time
		Ideno (1,2,3-cd) pyrene	10	µg/L	UJ	Low	Missed Holding Time
		Dibenzo (a,h) anthracene	10	µg/L	UJ	Low	Missed Holding Time

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW19-09 (SVOC)	Benzo (g,h,i) perylene	10	µg/L	UJ	Low	Missed Holding Time
	(Pesticide/PCB)	alpha-BHC	0.0038	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		beta-BHC	0.022	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		delta-BHC	0.0019	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		Heptachlor	0.0044	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		Endosulfan II	0.0019	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		alpha-Chlordane	0.0053	µg/L	JP	NDT	>25% difference between two GC columns / below RL
944740	MW45-09 (VOC)	2-Butanone	50	µg/L	UJ	High	Continuing Calibration >CL
		4-Methyl-2-Pentanone	50	µg/L	UJ	High	Continuing Calibration >CL
		2-Hexanone	50	µg/L	UJ	High	Continuing Calibration >CL
	(SVOC)	Phenol	31	µg/L	J	Low	Missed Holding Time
		bis (2-Chloroethyl) ether	4	µg/L	J	Low	Missed Holding Time / below RL
		2-Chlorophenol	10	µg/L	UJ	Low	Missed Holding Time
		1,3-Dichlorobenzene	10	µg/L	UJ	Low	Missed Holding Time
		1,4-Dichlorobenzene	2	µg/L	J	Low	Missed Holding Time / below RL
		1,2-Dichlorobenzene	4	µg/L	J	Low	Missed Holding Time / below RL
		2-Methylphenol	10	µg/L	UJ	Low	Holding Time Missed / CC > CL
		2,2-oxybis (1-Chloropropane)	7	µg/L	J	Low	Missed Holding Time / below RL
		4-Methylphenol	10	µg/L	UJ	Low	Missed Holding Time
		N-Nitroso-di-n-propylamine	10	µg/L	UJ	Low	Holding Time Missed / CC > CL
		Hexachloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Nitrobenzene	10	µg/L	UJ	Low	Missed Holding Time
		Isophorone	10	µg/L	UJ	Low	Missed Holding Time
		2-Nitrophenol	10	µg/L	UJ	Low	Missed Holding Time

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW45-09 (SVOC)	2,4-Dimethylphenol	10	µg/L	UJ	Low	Missed Holding Time
		bis (2-Chloroethoxy) methane	10	µg/L	UJ	Low	Missed Holding Time
		2,4-Dichlorophenol	10	µg/L	UJ	Low	Missed Holding Time
		1,2,4-Trichlorobenzene	10	µg/L	UJ	Low	Missed Holding Time
		Napthalene	11	µg/L	J	Low	Missed Holding Time
		4-Chloroaniline	10	µg/L	UJ	Low	Missed Holding Time
		Hexachlorobutadiene	10	µg/L	UJ	Low	Missed Holding Time
		4-Chloro-3-methylphenol	10	µg/L	UJ	Low	Missed Holding Time
		2-Methylnapthalene	0.5	µg/L	J	Low	Missed Holding Time / below RL
		Hexachlorocyclopentadiene	10	µg/L	UJ	Low	Missed Holding Time
		2,4,6-Trichlorophenol	10	µg/L	UJ	Low	Missed Holding Time
		2,4,5-Trichlorophenol	26	µg/L	UJ	Low	Missed Holding Time
		2-Chloronapthalene	10	µg/L	UJ	Low	Missed Holding Time
		2-Nitroaniline	26	µg/L	UJ	Low	Missed Holding Time
		Dimethylphthalate	10	µg/L	UJ	Low	Missed Holding Time
		Acenaphthylene	10	µg/L	UJ	Low	Missed Holding Time
		2,6-Dinitrotoluene	10	µg/L	UJ	Low	Holding Time Missed / CC > CL
		3-Nitroaniline	26	µg/L	UJ	Low	Missed Holding Time
		Acenaphthene	10	µg/L	UJ	Low	Missed Holding Time
		2,4-Dinitrophenol	26	µg/L	UJ	Low	Holding Time Missed / CC > CL / IC %difference > CL
		4-Dinitrophenol	26	µg/L	UJ	Low	Missed Holding Time
		Dibenzofuran	10	µg/L	UJ	Low	Missed Holding Time
		2,4-Dinitrotoluene	10	µg/L	UJ	Low	Holding Time Missed / CC > CL
		Diethylphthalate	10	µg/L	UJ	Low	Missed Holding Time
		4-Chlorophenyl-phenylether	10	µg/L	UJ	Low	Missed Holding Time
		Fluorene	10	µg/L	UJ	Low	Missed Holding Time
		4-Nitroaniline	26	µg/L	UJ	Low	Missed Holding Time
		4,6-Dinitro-2-methylphenol	26	µg/L	UJ	Low	Missed Holding Time

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW45-09 (SVOC)	N-nitrosodiphenylamine	10	µg/L	UJ	Low	Missed Holding Time
		4-Bromophenyl-phenylether	10	µg/L	UJ	Low	Missed Holding Time
		Hexachlorobenzene	10	µg/L	UJ	Low	Missed Holding Time
		Pentachlorophenol	26	µg/L	UJ	Low	Missed Holding Time
		Phenanthrene	10	µg/L	UJ	Low	Missed Holding Time
		Anthracene	10	µg/L	UJ	Low	Missed Holding Time
		Carbazole	10	µg/L	UJ	Low	Missed Holding Time
		Di-n-butylphthalate	10	µg/L	UJ	Low	Missed Holding Time
		Fluoranthene	10	µg/L	UJ	Low	Missed Holding Time
		Pyrene	10	µg/L	UJ	Low	Missed Holding Time
		Butylbenzylphthalate	10	µg/L	UJ	Low	Missed Holding Time
		3,3-Dichlorobenzidine	10	µg/L	UJ	Low	Missed Holding Time
		Benzo (a) anthracene	10	µg/L	UJ	Low	Missed Holding Time
		Chrysene	10	µg/L	UJ	Low	Missed Holding Time
		bis (2-Ethylhexyl) phthalate	10	µg/L	UJ	Low	Missed Holding Time
		Di-n-octylphthalate	10	µg/L	UJ	Low	Missed Holding Time
		Benzo (b) fluoranthene	10	µg/L	UJ	Low	Missed Holding Time
		Benzo (k) fluoranthene	10	µg/L	UJ	Low	Missed Holding Time
		Benzo (a) pyrene	10	µg/L	UJ	Low	Missed Holding Time
		Ideno (1,2,3-cd) pyrene	10	µg/L	UJ	Low	Missed Holding Time
		Dibenzo (a,h) anthracene	10	µg/L	UJ	Low	Missed Holding Time
		Benzo (g,h,i) perylene	10	µg/L	UJ	Low	Missed Holding Time
	(Pesticide/PCB)	alpha-BHC	0.0032	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		beta-BHC	0.0078	µg/L	JP	NDT	>25% difference between two GC columns / below RL
945258	M4S-09 (VOC)	2-Butanone	100	µg/L	UJ	High	Continuing Calibration >CL
		4-Methyl-2-Pentanone	100	µg/L	UJ	High	Continuing Calibration >CL

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	M4S-09	2-Hexanone	100	µg/L	UJ	High	Continuing Calibration >CL
	(VOC)	Acetone	26	µg/L	JB	High	IC RSD > CL / blank contamination / below RL
		Methylene Chloride	19	µg/L	J	NDT	Detected below RL
	(SVOC)	2-Methylnaphthalene	11	µg/L	UJ	NDT	CC % difference > CL
		4-Nitroaniline	28	µg/L	UJ	NDT	CC % difference > CL
		Carbazole	11	µg/L	UJ	NDT	CC % difference > CL
		Fluoranthene	11	µg/L	UJ	NDT	CC % difference > CL
	(Pesticide/PCB)	alpha-BHC	0.0083	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		beta-BHC	0.016	µg/L	JPB	NDT	>25% diff. between two GC columns / blank contam. / below RL
		delta-BHC	0.0012	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		gamma-BHC	0.011	µg/L	J	NDT	Detected below RL
945259	M4S-99	2-Butanone	100	µg/L	UJ	High	Continuing Calibration >CL
	(VOC)	4-Methyl-2-Pentanone	100	µg/L	UJ	High	Continuing Calibration >CL
		2-Hexanone	100	µg/L	UJ	High	Continuing Calibration >CL
		Acetone	24	µg/L	JB	High	IC RSD > CL / blank contamination / below RL
		Methylene Chloride	18	µg/L	J	NDT	Detected below RL
	(SVOC)	bis (2-chloroethyl) ether	95	µg/L	E	NDT	Exceeded calibration range
		2-Methylnaphthalene	10	µg/L	UJ	NDT	CC % difference > CL
		4-Nitroaniline	26	µg/L	UJ	NDT	CC % difference > CL
		Carbazole	10	µg/L	UJ	NDT	CC % difference > CL
		Fluoranthene	10	µg/L	UJ	NDT	CC % difference > CL
	(Pesticide/PCB)	alpha-BHC	0.0090	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		beta-BHC	0.012	µg/L	JPB	NDT	>25% diff. between two GC columns / blank contam. / below RL

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	M4S-99	delta-BHC	0.0027	µg/L	JP	NDT	>25% difference between two GC columns / below RL
	(Pesticide/PCB)	gamma-BHC	0.0084	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		4,4-DDD	0.0084	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		alpha-Chlordane	0.0040	µg/L	JP	NDT	>25% difference between two GC columns / below RL
945259	M4S-99 DL	Pentachlorophenol	51	µg/L	UJ	High	Continuing Calibration >CL
	(SVOC)	2-Methylphenol	20	µg/L	UJ	High	Continuing Calibration >CL
		4-Methylphenol	20	µg/L	UJ	High	Continuing Calibration >CL
		Nitrobenzene	20	µg/L	UJ	High	Continuing Calibration >CL
		Hexachlorocyclopentadiene	20	µg/L	UJ	High	Continuing Calibration >CL
		2,4-Dinitrophenol	51	µg/L	UJ	High	Continuing Calibration >CL
		bis (2-chloroethyl) ether	91	µg/L	D	NDT	Diluted sample
945261	MW15-09	2-Butanone	10	µg/L	UJ	High	Continuing Calibration >CL
	(VOC)	4-Methyl-2-Pentanone	10	µg/L	UJ	High	Continuing Calibration >CL
		2-Hexanone	10	µg/L	UJ	High	Continuing Calibration >CL
		Acetone	4	µg/L	J	High	IC RSD > CL / below RL
		Methylene Chloride	5	µg/L	J	NDT	Detected below RL
		Benzene	3	µg/L	J	NDT	Detected below RL
	(SVOC)	2-Methylnaphthalene	10	µg/L	UJ	NDT	CC % difference > CL
		4-Nitroaniline	26	µg/L	UJ	NDT	CC % difference > CL
		Carbazole	10	µg/L	UJ	NDT	CC % difference > CL
		Fluoranthene	10	µg/L	UJ	NDT	CC % difference > CL
	(Pesticide/PCB)	beta-BHC	0.0081	µg/L	JPB	NDT	>25% diff. between two GC columns / blank contam. / below RL
		delta-BHC	0.0016	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		gamma-BHC	0.0033	µg/L	JP	NDT	>25% difference between two GC columns / below RL

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW15-09	Heptachlor	0.0074	µg/L	JP	NDT	>25% difference between two GC columns / below RL
	(Pesticide/PCB)	Aldrin	0.0021	µg/L	JP	NDT	>25% difference between two GC columns / below RL
945684	MW14-09	Acetone	10	µg/L	JB	High	IC RSD > CL / blank contamination / below RL
	(VOC)	Methylene Chloride	3	µg/L	JB	High	blank contamination / Detected below RL
		Chloromethane	10	µg/L	UJ	High	CC %difference > CL
	(SVOC)	Nitrobenzene	10	µg/L	UJ	High	Continuing Calibration >CL
		2,2-oxybis (1-Chloropropane)	10	µg/L	UJ	High	Continuing Calibration >CL
		4-Nitrophenol	26	µg/L	UJ	High	Continuing Calibration >CL
		Pentachlorophenol	26	µg/L	UJ	High	Continuing Calibration >CL
		3,3-Dichlorobenzidine	10	µg/L	UJ	High	Continuing Calibration >CL
	(Pesticide/PCB)	Heptachlor	0.0022	µg/L	JP	NDT	>25% difference between two GC columns / below RL
945685	MW09R-09	Acetone	8	µg/L	JB	High	IC RSD > CL / blank contamination / below RL
	(VOC)	Methylene Chloride	9	µg/L	JB	High	blank contamination / Detected below RL
		Chloromethane	10	µg/L	UJ	High	CC %difference > CL
	(SVOC)	Nitrobenzene	10	µg/L	UJ	High	Continuing Calibration >CL
		2,2-oxybis (1-Chloropropane)	10	µg/L	UJ	High	Continuing Calibration >CL
		4-Nitrophenol	25	µg/L	UJ	High	Continuing Calibration >CL
		Pentachlorophenol	25	µg/L	UJ	High	Continuing Calibration >CL
		3,3-Dichlorobenzidine	10	µg/L	UJ	High	Continuing Calibration >CL
	(Pesticide/PCB)	delta-BHC	0.0053	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		alpha-Chlordane	0.010	µg/L	JP	NDT	>25% difference between two GC columns / below RL

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
945685	MW09R-09 DL	Acetone	15	µg/L	DJ	High	IC RSD > CL / Diluted / below RL
	(VOC)	Chloromethane	56	µg/L	UJ	High	CC %difference > CL
945686	MW06-99	Acetone	28	µg/L	JB	High	IC RSD > CL / blank contamination
	(VOC)	Methylene Chloride	3	µg/L	JB	High	Detected below RL / blank contamination
		Chloromethane	25	µg/L	UJ	High	CC %difference > CL
(cont.)	MW06-99	Nitrobenzene	10	µg/L	UJ	High	Continuing Calibration >CL
	(SVOC)	2,2-oxybis (1-Chloropropane)	10	µg/L	UJ	High	Continuing Calibration >CL
		4-Nitrophenol	26	µg/L	UJ	High	Continuing Calibration >CL
		Pentachlorophenol	26	µg/L	UJ	High	Continuing Calibration >CL
		3,3-Dichlorobenzidine	10	µg/L	UJ	High	Continuing Calibration >CL
		bis (2-ethylhexyl) phthalate	5	µg/L	JB	NDT	Detected below RL / blank contamination
	(Pesticide/PCB)	alpha-BHC	0.012	µg/L	J	NDT	Detected below RL
		beta-BHC	0.064	µg/L	P	NDT	>25% difference between two GC columns
		delta-BHC	0.0012	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		gamma-BHC	0.014	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		Heptachlor	0.015	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		Aldrin	0.0072	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		alpha-Chlordane	0.0085	µg/L	J	NDT	Detected below RL
		gamma-Chlordane	0.0019	µg/L	JP	NDT	>25% difference between two GC columns / below RL
945687	MW06-09	Acetone	80	µg/L	JB	High	IC RSD > CL / blank contamination
	(VOC)	2-Butanone	2	µg/L	J	NDT	Detected below RL
		Toluene	1	µg/L	J	NDT	Detected below RL
		1,2-Dichloroethene	1	µg/L	J	NDT	Detected below RL
		Chloromethane	10	µg/L	UJ	High	CC %difference > CL

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW06-09	Nitrobenzene	10	µg/L	UJ	High	Continuing Calibration >CL
	(SVOC)	2,2-oxybis (1-Chloropropane)	10	µg/L	UJ	High	Continuing Calibration >CL
		4-Nitrophenol	26	µg/L	UJ	High	Continuing Calibration >CL
		Pentachlorophenol	26	µg/L	UJ	High	Continuing Calibration >CL
		3,3-Dichlorobenzidine	10	µg/L	UJ	High	Continuing Calibration >CL
		Isophorne	3	µg/L	J	NDT	Detected below RL
	(Pesticide/PCB)	alpha-BHC	0.0095	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		beta-BHC	0.36	µg/L	P	NDT	>25% difference between two GC columns
		delta-BHC	0.0040	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		gamma-BHC	0.0066	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		Heptachlor	0.0043	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		Dieldrin	0.0069	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		4,4-DDE	0.0012	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		Endrin	0.021	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		alpha-Chlordane	0.0068	µg/L	JP	NDT	>25% difference between two GC columns / below RL
945705	MW10C-09	Acetone	990	µg/L	JB	High	IC RSD > CL / blank contamination / below RL
	(VOC)	Methylene Chloride	130	µg/L	JB	High	Detected below RL / blank contamination
		Chloromethane	1000	µg/L	UJ	High	CC %difference > CL
	(SVOC)	Nitrobenzene	10	µg/L	UJ	High	Continuing Calibration >CL
		2,2-oxybis (1-Chloropropane)	10	µg/L	UJ	High	Continuing Calibration >CL
		4-Nitrophenol	26	µg/L	UJ	High	Continuing Calibration >CL
		Pentachlorophenol	26	µg/L	UJ	High	Continuing Calibration >CL
		3,3-Dichlorobenzidine	10	µg/L	UJ	High	Continuing Calibration >CL
		bis (2-Ethylhexyl) phthalate	2	µg/L	JB	High	Surrogate %R > CL / blank contamination / below RL

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW10C-09 (Pesticide/PCB)	beta-BHC	0.017	µg/L	J	NDT	Detected below RL
		delta-BHC	0.0023	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		gamma-BHC	0.0012	µg/L	JP	NDT	>25% difference between two GC columns / below RL

B - Blank contamination
CC - Continuing calibration
CL - Control limit
D - Diluted
HT - Holding time
IC - Initial calibration
J - Estimated value
µg/L - micrograms/Liter
NDT - Not Determined
P - indicates that the percent difference between the two GP columns is greater than 25%.
R - Recovery
RL - Reporting limit
RSD - Relative standard deviation
U - The associated value is at or below MDL.

TABLE 1-2

SUMMARY OF INORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
944694	MW50-09	Antimony	2.3	µg/L	J	NDT	Detected below RL
		Arsenic	2.9	µg/L	J	NDT	Detected below RL
		Beryllium	0.41	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Cadmium	0.71	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Cobalt	5.7	µg/L	J	NDT	Detected below RL
		Copper	12.6	µg/L	J	NDT	Detected below RL
		Mercury	1.1	µg/L	J	Low	Missed Holding Time
		Potassium	9530	µg/L	J	High	Serial Dilution %D > CL
		Vanadium	8.3	µg/L	J	NDT	Detected below RL
		Zinc	19.1	µg/L	J	High	Lab duplicate RPD > CL / below RL
944711	MW19-09	Aluminum	64.6	µg/L	J	NDT	Detected below RL
		Arsenic	7.7	µg/L	J	NDT	Detected below RL
		Beryllium	0.25	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Chromium	3.6	µg/L	J	NDT	Detected below RL
		Cobalt	1.4	µg/L	J	NDT	Detected below RL
		Copper	2.3	µg/L	J	NDT	Detected below RL
		Cyanide	5.1	µg/L	J	NDT	Detected below RL
		Mercury	0.05	µg/L	UJ	Low	Missed Holding Time
		Nickel	16.2	µg/L	J	NDT	Detected below RL
		Potassium	92400	µg/L	J	High	Serial Dilution %D > CL
		Vanadium	0.73	µg/L	J	NDT	Detected below RL
944740	MW45-09	Antimony	2.1	µg/L	J	NDT	Detected below RL
		Barium	84.2	µg/L	J	NDT	Detected below RL
		Beryllium	0.26	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Cobalt	3.0	µg/L	J	NDT	Detected below RL
		Copper	5.0	µg/L	J	NDT	Detected below RL

TABLE 1-2

SUMMARY OF INORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW45-09	Lead	1.8	µg/L	J	NDT	Detected below RL
		Mercury	0.05	µg/L	UJ	Low	Missed Holding Time
		Potassium	5430	µg/L	J	High	Serial Dilution %D > CL
		Vanadium	1.1	µg/L	J	NDT	Detected below RL
		Zinc	5.6	µg/L	J	High	Lab duplicate RPD > CL / below RL
945258	M4S-09	Aluminum	83.9	µg/L	J	NDT	Detected below RL
		Antimony	3.2	µg/L	J	NDT	Detected below RL
		Arsenic	2.7	µg/L	J	NDT	Detected below RL
		Beryllium	0.44	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Cadmium	1.8	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Chromium	6.2	µg/L	J	NDT	Detected below RL
		Cobalt	6.0	µg/L	J	NDT	Detected below RL
		Mercury	0.05	µg/L	UJ	Low	Missed Holding Time
		Nickel	11.5	µg/L	J	NDT	Detected below RL
		Potassium	18800	µg/L	J	High	Serial Dilution %D > CL
		Vanadium	2.9	µg/L	J	NDT	Detected below RL
		Zinc	2.5	µg/L	J	High	Lab duplicate RPD > CL / below RL
945259	M4S-99	Aluminum	53.7	µg/L	J	NDT	Detected below RL
		Antimony	2.8	µg/L	J	NDT	Detected below RL
		Arsenic	4.0	µg/L	J	NDT	Detected below RL
		Beryllium	0.32	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Cadmium	2.6	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Chromium	3.7	µg/L	J	NDT	Detected below RL
		Cobalt	7.2	µg/L	J	NDT	Detected below RL
		Mercury	0.05	µg/L	UJ	Low	Missed Holding Time
		Nickel	11.3	µg/L	J	NDT	Detected below RL

TAB[redacted]-2

SUMMARY OF INORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	M4S-99	Potassium	19500	µg/L	J	High	Serial Dilution %D > CL
		Silver	0.38	µg/L	J	NDT	Detected below RL
		Vanadium	4.0	µg/L	J	NDT	Detected below RL
		Zinc	2.7	µg/L	J	High	Lab duplicate RPD > CL / below RL
945261	MW15-09	Beryllium	0.47	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Chromium	4.1	µg/L	J	NDT	Detected below RL
		Cobalt	5.5	µg/L	J	NDT	Detected below RL
		Copper	3.0	µg/L	J	NDT	Detected below RL
		Mercury	0.05	µg/L	UJ	Low	Missed Holding Time
		Nickel	19.8	µg/L	J	NDT	Detected below RL
		Potassium	124000	µg/L	J	High	Serial Dilution %D > CL
		Vanadium	1.9	µg/L	J	NDT	Detected below RL
		Zinc	2.1	µg/L	J	High	Lab duplicate RPD > CL / below RL
945684	MW14-09	Antimony	2.9	µg/L	J	NDT	Detected below RL
		Barium	119	µg/L	J	NDT	Detected below RL
		Beryllium	0.93	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Cobalt	24.7	µg/L	J	NDT	Detected below RL
		Mercury	0.05	µg/L	UJ	Low	Missed Holding Time
		Potassium	5050	µg/L	J	High	Serial Dilution %D > CL
		Selenium	6.6	µg/L	J	High	Spike Sample %R > CL
		Zinc	44.5	µg/L	J	High	Lab duplicate RPD > CL
945685	MW09R-09	Arsenic	2.0	µg/L	J	NDT	Detected below RL
		Beryllium	0.36	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Cadmium	0.92	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Cobalt	3.3	µg/L	J	NDT	Detected below RL

TABLE 1-2

SUMMARY OF INORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW09R-09	Copper	5.7	µg/L	J	NDT	Detected below RL
		Mercury	0.05	µg/L	UJ	Low	Missed Holding Time
		Nickel	18.2	µg/L	J	NDT	Detected below RL
		Potassium	7790	µg/L	J	High	Serial Dilution %D > CL
		Vanadium	2.5	µg/L	J	NDT	Detected below RL
		Zinc	20.6	µg/L	J	High	Lab duplicate RPD > CL
945686	MW06-99	Aluminum	85.3	µg/L	J	NDT	Detected below RL
		Antimony	2.5	µg/L	J	NDT	Detected below RL
		Beryllium	0.38	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Cadmium	2.2	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Cobalt	2.0	µg/L	J	NDT	Detected below RL
		Copper	3.8	µg/L	J	NDT	Detected below RL
		Cyanide	5.7	µg/L	J	NDT	Detected below RL
		Mercury	0.05	µg/L	UJ	Low	Missed Holding Time
		Nickel	21.6	µg/L	J	NDT	Detected below RL
		Potassium	16400	µg/L	J	High	Serial Dilution %D > CL
		Silver	0.40	µg/L	J	NDT	Detected below RL
		Zinc	4.4	µg/L	J	High	Lab duplicate RPD > CL / below RL
945687	MW06-09	Aluminum	41.3	µg/L	J	NDT	Detected below RL
		Antimony	3.2	µg/L	J	NDT	Detected below RL
		Beryllium	0.25	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Cadmium	2.1	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Chromium	8.1	µg/L	J	NDT	Detected below RL
		Cobalt	2.4	µg/L	J	NDT	Detected below RL
		Copper	3.7	µg/L	J	NDT	Detected below RL
		Mercury	0.05	µg/L	UJ	Low	Missed Holding Time

TABLE 2

SUMMARY OF INORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW06-09	Nickel	20.2	µg/L	J	NDT	Detected below RL
		Potassium	16500	µg/L	J	High	Serial Dilution %D > CL
		Vanadium	0.68	µg/L	J	NDT	Detected below RL
		Zinc	2.3	µg/L	J	High	Lab duplicate RPD > CL / below RL
945705	MW10C-09	Antimony	2.1	µg/L	J	NDT	Detected below RL
		Beryllium	0.33	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Cobalt	2.7	µg/L	J	NDT	Detected below RL
		Copper	3.6	µg/L	J	NDT	Detected below RL
		Cyanide	7.4	µg/L	J	NDT	Detected below RL
		Mercury	0.05	µg/L	UJ	Low	Missed Holding Time
		Nickel	13.4	µg/L	J	NDT	Detected below RL
		Potassium	3630	µg/L	J	High	Serial Dilution %D > CL / below RL
		Vanadium	2.0	µg/L	J	NDT	Detected below RL
		Zinc	5.1	µg/L	J	High	Lab duplicate RPD > CL / below RL

CL - Control limit
D - Difference
J - Estimated value
µg/L - micrograms/Liter
RL - Reporting limit
RPD - Relative percent difference
U - The associated value is at or below IDL.

TABLE 1-3

COMPARISON OF ORIGINAL AND RE-ANALYSIS SAMPLES FOR SVOCs
SDG 003
AMERICAN CHEMICAL SERVICE, INC
GRIFFITH, INDIANA

Analyte	ACSGWMW19-09	ACSGWMW19-09RE
bis (2-Chloroethyl) ether	23	23
2,2-oxybis (1-Chloropropane)	2 J	4 J
Isophorone	6 J	10 U
bis (2-Ethylhexyl) phthalate	16	1 J
All other analytes	U	U

Analyte	ACSGWMW45-09	ACSGWMW45-09RE
Phenol	5 J	31
bis (2-Chloroethyl) ether	5 J	4 J
1,4-Dichlorobenzene	2 J	2 J
1,2-Dichlorobenzene	4 J	4 J
2,2-oxybis (1-Chloropropane)	7 J	7 J
Isophorone	2 J	10 U
Napthalene	97 E	11
2-Methylnapthalene	2 J	0.5 J
All other analytes	U	U

Analyte	ACSGWMW50-09	ACSGWMW50-09RE
All analytes	U	U

E - result exceeded the calibration range
J - result is estimated
RE - re-analysis
U - result not detected

MEMORANDUM

MONTGOMERY WATSON

To:	Trisha Woolslayer	**Date:**	August 20, 1999
From:	Anne Koob, MW	**Job No.:**	1252042.281601
Subject:	Data Validation for American Chemical Service (ACS). Griffith, Indiana. June 1999	**SDG:**	005

INTRODUCTION

The following text is based on the validation of water samples collected at American Chemical Service, Inc. in June of 1999.

Fourteen water samples and six field quality assurance samples were analyzed by CompuChem Laboratories, Cary, North Carolina for the following parameters:

- VOA's by CLP – OLM 3.0 (samples FB02-09, FB03-09, FB04-09, FB05-09, M1S-09, M4D-09, MW07-09, MW11-09, MW23-09, MW24-09, MW29-09, MW30-09, MW33-09, MW37-09, MW43-09, MW46-09, MW47-09, MW51-09, TB03-09, and TB04-09)

- SVOA's by CLP – OLM 3.0 (samples FB02-09, FB03-09, FB04-09, FB05-09, MW23-09, MW24-09, MW29-09, MW30-09, MW33-09, MW37-09, MW43-09, MW46-09, MW47-09, and MW51-09)

- Pesticides/PCB's by CLP – OLM 3.0 (samples FB02-09, FB03-09, FB04-09, FB05-09, MW23-09, MW24-09, MW29-09, MW30-09, MW33-09, MW37-09, MW43-09, MW46-09, MW47-09, and MW51-09)

- Inorganics by CLP – ILM04.0 (samples FB02-09, FB03-09, FB04-09, FB05-09, MW07-09, MW11-09, MW23-09, MW24-09, MW29-09, MW30-09, MW33-09, MW37-09, MW43-09, MW46-09, MW47-09, MW51-09, M1S-09, and M4D-09)

- Cyanide by CLP – ILM04.0 (samples FB02-09, FB03-09, FB04-09, FB05-09, MW07-09, MW11-09, MW23-09, MW24-09, MW29-09, MW30-09, MW33-09, MW37-09, MW43-09, MW46-09, MW47-09, MW51-09, M1S-09, and M4D-09)

Data validation was conducted in accordance with procedures specified in *Pre-Design Activities Quality Assurance Project Plan (MW, 1995), National Functional Guidelines for Organic Data*

Review (USEPA, 1994a), and National Functional Guidelines for Inorganic Data Review (USEPA, 1994b).

The following field quality control samples were collected during the June 1999 sampling round:

- Four field blanks: FB02-09, FB03-09, FB04-09, FB05-09; and
- Two trip blanks: TB03-09, and TB04-09.

This memorandum contains a narrative summarizing the data quality objectives specified in the work plan, and provides a table of qualified data (Table 1-1 and 1-2) and supporting validation documentation (Attachment A).

SUMMARY

This section describes the quality control parameters reviewed during validation, summarizes the data quality objectives as a result of the validation and provides a summary of the deficiencies and qualification applied. The following paragraphs describe deficiencies that were identified which resulted in qualification of the sample results. Each analysis is separated into sections for clarity.

Volatile Organic Componds

Major Deficiencies: The following paragraphs describe the major deficiencies identified during the validation process.

Holding Time

- One samples for this analysis exceeded the holding time requirement of 14 days by 2.5 hours. All positive results were qualified as "J" and all non-detects as "UJ" with a low bias. The lab narrative indicates that sample M1S-09 arrived at a pH of 3, which is greater than the preservation criteria of pH 2. Holding time criteria for non-aromatic volatile compounds is fourteen days, regardless of pH, provided that the temperature has been maintained at 4±2° C. Sample temperature was properly maintained and no data were qualified due to the pH nonconformance.

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

Initial Calibration

- The initial calibration (run on 6/20/99 at 1249) %RSD for acetone (51.5 percent) was above the control limit of 30 percent. All positive results were qualified as an estimate "J" for acetone.

Continuing Calibration

- The continuing calibration (run on 6/27/99 at 1120) for acetone (-30.3 percent) had a percent difference that exceeded the control limit of ±25 percent. All positive and nondetect results were qualified as estimated with a low bias.

Surrogate Compounds

- The 1,2-Dichloroethane surrogate in sample FB03-09 was recovered at 124%, which is above the control limit of 114%. All positive results were qualified as estimated "J" with a high bias.

Contaminants were detected below the CRDL in some blanks and the associated sample results were flagged "B", by the laboratory, to indicate the possibility of blank contamination. Because most detections in blanks were below reporting limits, blank contamination is not expected to affect data usability across the board. Samples with associated blank contamination (above the reporting limit) are noted in the table of qualified data.

Semi-Volatile Organic Compounds

Major Deficiencies: There were no major deficiencies identified during the validation process.

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

Continuing Calibration

- A continuing calibration (run on 6/22/99 at 0921) had a percent difference for Nitrobenzene (34.1 percent/high bias) and Pentachlorophenol (38.7 percent/low bias) that exceeded the control limit of 25 percent. All affected samples were ND for pentachlorophenol; thus the practical quantitation limit (PQL) was qualified as estimated "UJ". No qualification was required for Nitrobenzene because the associated samples were ND and the CCV demonstrated a high bias.

Surrogate Compounds

- The Nitrobenzene-d5 surrogate in sample MW24-09 was recovered at 120%, which is above the control limit of 114%. All positive results were qualified as estimated "J" with a high bias.
- The Nitrobenzene-d5 surrogate in sample FB05-09 was recovered at 120%, which is above the control limit of 114%. All positive results were qualified as estimated "J" with a high bias.
- The Nitrobenzene-d5 surrogate in sample FB04-09 was recovered at 130%, which is above the control limit of 114%. All positive results were qualified as estimated "J" with a high bias.
- The Nitrobenzene-d5 surrogate in sample FB02-09 was recovered at 123%, which is above the control limit of 114%. All positive results were qualified as estimated "J" with a high bias.
- The 2,4,6-Tribromophenol surrogate in sample MW24-09 was recovered at 131%, which is above the control limit of 114%. All positive results were qualified as estimated "J" with a high bias.
- The 2-Fluorobiphenyl surrogate in sample MW43-09 was recovered at 32%, which is below the control limit of 35%. All positive results were qualified as estimated "J", with a low bias. For all ND results, the PQL was qualified as estimated "UJ" with a low bias.
- The 2-Chlorophenol-d4 surrogate in sample MW43-09 was recovered at 32%, which is below the control limit of 33%. Though this surrogate is an advisory surrogate, it is required to pass within control limits. All positive results were qualified as estimated

"J", with a low bias. For all ND results, the PQL was qualified as estimated "UJ" with a low bias.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

- The MS/MSD recovery for 4-Nitrophenol in sample MW47-09 was 97%/94%, which is above the upper control limit of 80%. No data were qualified, as all results for this compound were non-detect.
- The MSD recovery for 4-Chloro-3-methylphenol in sample MW47-09 was 99%, which is above the upper control limit of 97%. No data were qualified, as all results for this compound were non-detect.
- The MS/MSD RPD for 1,4-Dichlorobenzene in sample MW47-09 was 44, which is above the upper control limit of 28%. All results were qualified as estimated "J".

Contaminants were detected below the CRDL in some blanks and the associated sample results were flagged "B", by the laboratory, to indicate the possibility of blank contamination. Because all detections in blanks were below reporting limits, blank contamination is not expected to affect data usability.

Pesticides / PCBs

Major Deficiencies: There were no major deficiencies identified during the validation process.

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

- The MS/MSD RPD for gamma-BHC(lindane) in sample MW47-09 was 34, which is above the upper control limit of 15%. All results were qualified as estimated "J".
- The MS/MSD RPD for Heptachlor in sample MW47-09 was 32, which is above the upper control limit of 20%. All results were qualified as estimated "J".
- The MS/MSD RPD for Aldrin in sample MW47-09 was 30, which is above the upper control limit of 22%. All results were qualified as estimated "J".
- The MS/MSD RPD for Dieldrin in sample MW47-09 was 25, which is above the upper control limit of 18%. All results were qualified as estimated "J".
- The MS/MSD RPD for Endrin in sample MW47-09 was 29, which is above the upper control limit of 21%. All results were qualified as estimated "J".

Contaminants were detected below the CRDL in some blanks and the associated sample results were flagged "B", by the laboratory, to indicate the possibility of blank contamination. Because all detections in blanks were below reporting limits, blank contamination is not expected to affect data usability.

Inorganics / Cyanide

Major Deficiencies: The following paragraphs describe the major deficiencies identified during the validation process.

Holding Time

- All samples analyzed for mercury exceeded the holding time requirement of 28 days by twelve days. All positive results were qualified as "J" and all non-detects as "UJ" with a low bias.
- All samples analyzed for cyanide exceeded the holding time requirement of 14 days by 26 days. All positive results were qualified as "J" and all non-detects as "UJ" with a low bias.

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

Continuing Calibration Blanks

- Several continuing calibration blanks (CCBs) had negative detections of calcium, sodium, and zinc indicating a possible negative bias in associated sample results. All associated positive results for those analytes were qualified as estimated "J", with a low bias, unless the bias was insignificant compared to the sample concentration. In the case of ND results, the PQL was qualified as estimated "UJ", with a low bias.

Several samples contained detected concentrations of target analytes at concentrations between the instrument detection limit (IDL) and the contract required detection limit (CRDL). These were qualified as "B" by the laboratory, but during the validation process these qualifications were changed to a "J" flag which indicates an estimate. Table 1-2 summarizes the affected samples and analytes.

DATA QUALITY OBJECTIVES

The following is a summary of the data quality objectives that were evaluated during the data validation process.

Reporting Limits: Reporting limits were met for all analyses with the following exception.

- For VOCs: Reporting limits were met without exception. No dilutions were necessary.
- For SVOCs: Reporting limits were met without exception. No dilutions were necessary.
- For Pesticides: Reporting limits were met without exception. No dilutions were necessary.
- For Metals and Cyanide: Reporting limits were met without exception. No dilutions were necessary.

Accuracy

Laboratory Control Sample: Validation of the LCS was not performed for the organic analyses because the data was not provided by the laboratory and is not required per OLM 3.0. The LCS for the inorganic analyses were within control limits and analyzed at the correct frequency.

Surrogates: The surrogate results were within laboratory specified limits with the exceptions noted previously.

Matrix Spike / Matrix Spike Duplicate: The MS/MSD results were within laboratory specified limits with the exceptions noted previously.

Precision

Field Duplicates: No field duplicates were present in this SDG.

Laboratory Duplicate Sample: No laboratory duplicate analyses were performed in this SDG.

The overall results were acceptable, indicating that sampling and analytical precision objectives were met for the sampling event.

Completeness

The data package was complete for the requested analyses. No results were considered unusable. The completeness was 100 percent, which meets the completeness objective of 95 percent.

Representativeness:

Trip blanks TB03-09 and TB04-09 had no target analytes detected above the reporting limit for all analyses, indicating that the representativeness objectives for the sampling event were met.

Field blanks FB03-09 and FB05-09 had acetone and methylene chloride detections above the reporting limit. Associated positive results were qualified as contaminated "B". Samples MW37-09, MW23-09, and TB04-09 were affected.

Comparability:

All data were reported in similar units to facilitate comparison of results within the data packages. Samples arrived at the laboratory at 4°C, which is within the limits of 2-6°C. It should be noted that several samples were analyzed by EPA method CLP-Inorganics OLM 4.0 were analyzed after the recommended holding time. Because of the holding time exceedence, comparability might be affected.

As a result of this evaluation, all data within this SDG for wells at American Chemical Service are of known and acceptable quality in relation to the DQOs of this project. Although significant qualifications were required due to holding time violations, the data are considered usable as qualified for the intended purposes. Table 1-1 and 1-2 summarize the validation and laboratory qualifications for this sampling event.

REFERENCES

Pre-Design Activities Quality Assurance Project Plan, American Chemical Service, Inc. NPL Site, Griffith Indiana (MW, 1995).

National Functional Guidelines for Organic Data Review (USEPA, 1994a).

National Functional Guidelines for Inorganic Data Review (USEPA, 1994b).

ID	Field ID	Analysis	Analyte	result	unit	flag	bias	comment
SDG 5	FB03-09RE	VOCs	all other volatiles	all	ug/L	J/UJ	low	run 2.5 hours past hold time
SDG 5	FB03-09RE	VOCs	Methylene Chloride	44	ug/L	J	low	run 2.5 hours past hold time
SDG 5	FB03-09	VOCs	all other volatiles	all	ug/L	J	high	DCE surrogate out high at 124%
SDG 5	FB03-09	VOCs	Methylene Chloride	49	ug/L	J	high	DCE surrogate out high at 124%
SDG 5	FB03-09	VOCs	Acetone	10	ug/L	J	low	Continuing calibration %D is -30.3%, ICAL %RSD is 51.5
SDG 5	TB04-09	VOCs	Acetone	<10	ug/L	UJ	low	Continuing calibration %D is -30.3%
SDG 5	MW37-09	VOCs	Acetone	5	ug/L	J	low	Continuing calibration %D is -30.3%, ICAL %RSD is 51.5
SDG 5	MW23-09	VOCs	Acetone	7	ug/L	J	high	Continuing calibration %D is -30.3%, ICAL %RSD is 51.5
SDG 5	FB05-09	VOCs	Acetone	23	ug/L	J	high	ICAL %RSD is 51.5
SDG 5	MW43-09	SVOCs	all semivolatiles	ND	ug/L	UJ	low	2-Fluorobiphenyl surrogate out at 32% (35-114)
SDG 5	MW43-09	SVOCs	all semivolatiles	ND	ug/L	UJ	low	2-Chlorophenol-d4 out at 32% (33-110) advisory
SDG 5	MW47-09	SVOCs	4-Nitrophenol	<10	ug/L	UJ	high	MS/MSD recovery 97%/94%, (10-80)
SDG 5	MW47-09	SVOCs	4-Chloro-3-methylphenol	<10	ug/L	UJ	high	MSD recovery 99% (23-97)
SDG 5	MW47-09	SVOCs	1,4-Dichlorobenzene	<10	ug/L	UJ	NDT	MS/MSD RPD is 44, limit is 28
SDG 5	FB03-09	SVOCs	Pentachlorophenol	<25	ug/L	UJ	low	Continuing calibration %RSD -38.7%
SDG 5	MW23-09	SVOCs	Pentachlorophenol	<25	ug/L	UJ	low	Continuing calibration %RSD -38.7%
SDG 5	MW37-09	SVOCs	Pentachlorophenol	<26	ug/L	UJ	low	Continuing calibration %RSD -38.7%
SDG 5	MW24-09	SVOCs	Pentachlorophenol	<25	ug/L	UJ	low	Continuing calibration %RSD -38.7% , Nitrobenzene-d5 surrogate out at 120% (35-114), 2,4,6-Tribromophenol surrogate out at 131% (10-123)
SDG 5	FB05-09	SVOCs	Pentachlorophenol	<27	ug/L	UJ	low	Continuing calibration %RSD -38.7%, Nitrobenzene-d5 surrogate out at 120% (35-114)
SDG 5	MW29-09	SVOCs	Pentachlorophenol	<25	ug/L	UJ	low	Continuing calibration %RSD -38.7%
SDG 5	FB04-09	SVOCs	Pentachlorophenol	<25	ug/L	UJ	low	Continuing calibration %RSD -38.7%, Nitrobenzene-d5 surrogate out at 130% (35-114)
SDG 5	MW47-09	Pesticides	gamma-BHC (Lindane)	<.049	ug/L	UJ	NDT	MS/MSD RPD is 34, limit is 15

ID	Field ID	Analysis	Analyte	result	unit	flag	bias	comment
SDG 5	MW47-09	Pesticides	Heptachlor	<.049	ug/L	UJ	NDT	MS/MSD RPD is 32, limit is 20
SDG 5	MW47-09	Pesticides	Aldrin	<.049	ug/L	UJ	NDT	MS/MSD RPD is 30, limit is 22
SDG 5	MW47-09	Pesticides	Dieldrin	<0.98	ug/L	UJ	NDT	MS/MSD RPD is 25, limit is 18
SDG 5	MW47-09	Pesticides	Endrin	<0.98	ug/L	UJ	NDT	MS/MSD RPD is 29, limit is 21
SDG5	FB02-09	VOCs	Methylene Chloride	8	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	Acetone	7	ug/L	JB	high	Reported between MDL and CRDL, ICAL %RSD is 51.5
		VOCs	Benzene	4	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	Toluene	3	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	1,2-Dichloroethene	2	ug/L	J	NDT	Reported between MDL and CRDL
	FB03-09	VOCs	Chloroform	1	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	2-Butanone	2	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	4-Methyl-2-pentanone	1	ug/L	J	NDT	Reported between MDL and CRDL
	FB03-09RE	VOCs	Acetone	10	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	Chloroform	1	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	2-Butanone	2	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	4-Methyl-2-pentanone	1	ug/L	J	NDT	Reported between MDL and CRDL
	FB04-09	VOCs	Methylene Chloride	2	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	Acetone	3	ug/L	J	high	Reported between MDL and CRDL, ICAL %RSD is 51.5
	FB05-09	VOCs	Chloroform	1	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	2-Butanone	3	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	4-Methyl-2-pentanone	2	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	Toluene	2	ug/L	J	NDT	Reported between MDL and CRDL
	M1S-09	VOCs	Benzene	2	ug/L	J	NDT	Reported between MDL and CRDL
	MW23-09	VOCs	Methylene Chloride	4	ug/L	JB	high	Reported between MDL and CRDL, Blank contamination from FB03-09.
		VOCs	Acetone	7	ug/L	J	NDT	Reported between MDL and CRDL
	MW24-09	VOCs	Methylene Chloride	4	ug/L	JB	high	Reported between MDL and CRDL, Blank contamination from FB05-09.
		VOCs	Acetone	4	ug/L	JB	high	Reported between MDL and CRDL, ICAL %RSD is 51.5, Blank contamination from FB05-09.
	MW29-09	VOCs	Methylene Chloride	2	ug/L	J	NDT	Reported between MDL and CRDL

ID	Field ID	Analysis	Analyte	result	unit	flag	bias	comment
		VOCs	Acetone	2	ug/L	J	high	Reported between MDL and CRDL, ICAL %RSD is 51.5
	MW30-09	VOCs	Methylene Chloride	4	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	Acetone	3	ug/L	J	high	Reported between MDL and CRDL, ICAL %RSD is 51.5
	MW33-09	VOCs	Methylene Chloride	9	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	Acetone	8	ug/L	JB	high	Reported between MDL and CRDL, ICAL %RSD is 51.5
		VOCs	2-Butanone	1	ug/L	JB	NDT	Reported between MDL and CRDL
	MW37-09	VOCs	Methylene Chloride	4	ug/L	JB	high	Reported between MDL and CRDL, Blank contamination from FB03-09.
		VOCs	Acetone	5	ug/L	J	NDT	Reported between MDL and CRDL
	MW43-09	VOCs	Methylene Chloride	2	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	Acetone	4	ug/L	J	high	Reported between MDL and CRDL, ICAL %RSD is 51.5
	MW46-09	VOCs	Methylene Chloride	3	ug/L	J	NDT	Reported between MDL and CRDL
	MW47-09	VOCs	Methylene Chloride	2	ug/L	J	NDT	Reported between MDL and CRDL
	MW51-09	VOCs	Methylene Chloride	8	ug/L	J	NDT	Reported between MDL and CRDL
	TB03-09	VOCs	Methylene Chloride	3	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	Acetone	2	ug/L	J	high	Reported between MDL and CRDL, ICAL %RSD is 51.5
	TB04-09	VOCs	Methylene Chloride	3	ug/L	JB	high	Reported between MDL and CRDL, Blank contamination from FB03-09.
	MW47-09MS	VOCs	Methylene Chloride	2	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	Acetone	2	ug/L	J	NDT	Reported between MDL and CRDL
	MW47-09MSD	VOCs	Methylene Chloride	2	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	Acetone	1	ug/L	J	NDT	Reported between MDL and CRDL
	FB02-09	SVOCs	bis(2-Ethylhexyl) phthalate	2	ug/L	J	high	Reported between MDL and CRDL, Nitrobenzene-d5 surrogate out at 123% (35-114)
	MW29-09	SVOCs	bis(2-Ethylhexyl) phthalate	1	ug/L	JB	NDT	Reported between MDL and CRDL
	MW30-09	SVOCs	bis(2-Ethylhexyl) phthalate	1	ug/L	J	NDT	Reported between MDL and CRDL
	MW33-09	SVOCs	bis(2-Ethylhexyl) phthalate	1	ug/L	J	NDT	Reported between MDL and CRDL

ID	Field ID	Analysis	Analyte	result	unit	flag	bias	comment
	FB03-09	Pesticides	delta-BHC	0.0017	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			Aldrin	0.0046	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			Methoxychlor	0.01	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			gamma-Chlordane	0.0015	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
	FB04-09		beta-BHC	0.02	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			delta-BHC	0.0012	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
	FB05-09		beta-BHC	0.0079	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			Endrin aldehyde	0.0049	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			alpha-Chlordane	0.0015	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
	MW23-09		Heptachlor	0.0022	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
	MW24-09		beta-BHC	0.0096	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			delta-BHC	0.003	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
	MW29-09		delta-BHC	0.0045	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			gamma-Chlordane	0.0018	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
	MW30-09		4,4'-DDT	0.0066	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
	MW33-09		beta-BHC	0.017	ug/L	JPB	NDT	Second column delta >25%, reported between MDL and CRDL, associated blank contamination

ID	Field ID	Analysis	Analyte	result	unit	flag	bias	comment
			gamma-BHC (Lindane)	0.0025	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			Heptachlor	0.007	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			4,4' DDD	0.0024	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			Methoxychlor	0.0036	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			alpha-Chlordane	0.0014	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
	MW37-09		beta-BHC	0.019	ug/L	J	NDT	Reported between MDL and CRDL
	MW43-09		beta-BHC	0.0045	ug/L	JB	NDT	Reported between MDL and CRDL, associated blank contamination.
	MW51-09		alpha-BHC	0.0015	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
	MW47-09MS		4,4'-DDE	0.0028	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			4,4'-DDD	0.0037	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			Endrin ketone	0.03	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			Endrin aldehyde	0.03	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
	MW47-09MSD		4,4'-DDE	0.0023	ug/L	J	NDT	Reported between MDL and CRDL
			4,4'-DDD	0.0046	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			Endrin ketone	0.035	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			Endrin aldehyde	0.034	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
	FB02-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L	UJ	Low	14 day holding time exceeded by 26 days
	FB03-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L	UJ	Low	14 day holding time exceeded by 26 days

ID	Field ID	Analysis	Analyte	result	unit	flag	bias	comment
	FB04-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L	UJ	Low	14 day holding time exceeded by 26 days
	FB05-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L	UJ	Low	14 day holding time exceeded by 26 days
	MW23-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L	UJ	Low	14 day holding time exceeded by 26 days
	MW24-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
	MW29-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L	UJ	Low	14 day holding time exceeded by 26 days
	MW30-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L	UJ	Low	14 day holding time exceeded by 26 days
	MW33-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L	UJ	Low	14 day holding time exceeded by 26 days
	MW37-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
	MW43-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	40.6	ug/L	J	Low	14 day holding time exceeded by 26 days
	MW46-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L	UJ	Low	14 day holding time exceeded by 26 days
	MW47-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L	UJ	Low	14 day holding time exceeded by 26 days
	MW51-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L	UJ	Low	14 day holding time exceeded by 26 days
	FB02-09	Metals	Barium	0.92	ug/L	B	NDT	Reported between the MDL and CRDL
			Beryllium	0.24	ug/L	B	NDT	Reported between the MDL and CRDL
			Calcium	251	ug/L	B	NDT	Reported between the MDL and CRDL
			Chromium	1.2	ug/L	B	NDT	Reported between the MDL and CRDL
			Iron	38	ug/L	B	NDT	Reported between the MDL and CRDL
			Magnesium	93.1	ug/L	B	NDT	Reported between the MDL and CRDL
			Manganese	0.81	ug/L	B	NDT	Reported between the MDL and CRDL
			Sodium	846	ug/L	B	NDT	Reported between the MDL and CRDL
			Zinc	5.1	ug/L	B	NDT	Reported between the MDL and CRDL
	FB03-09		Barium	0.46	ug/L	B	NDT	Reported between the MDL and CRDL
			Beryllium	0.23	ug/L	B	NDT	Reported between the MDL and CRDL
			Calcium	82.3	ug/L	B	NDT	Reported between the MDL and CRDL

ID	Field ID	Analysis	Analyte	result	unit	flag	bias	comment
			Chromium	1.4	ug/L	B	NDT	Reported between the MDL and CRDL
			Iron	80.6	ug/L	B	NDT	Reported between the MDL and CRDL
			Magnesium	38.5	ug/L	B	NDT	Reported between the MDL and CRDL
			Manganese	0.95	ug/L	B	NDT	Reported between the MDL and CRDL
			Nickel	1.1	ug/L	B	NDT	Reported between the MDL and CRDL
			Sodium	2220	ug/L	B	NDT	Reported between the MDL and CRDL
			Zinc	1.5	ug/L	B	NDT	Reported between the MDL and CRDL
	FB04-09		Antimony	10.1	ug/L	B	NDT	Reported between the MDL and CRDL
			Barium	0.52	ug/L	B	NDT	Reported between the MDL and CRDL
			Beryllium	0.32	ug/L	B	NDT	Reported between the MDL and CRDL
			Calcium	59.4	ug/L	B	NDT	Reported between the MDL and CRDL
			Magnesium	17.3	ug/L	B	NDT	Reported between the MDL and CRDL
			Manganese	0.3	ug/L	B	NDT	Reported between the MDL and CRDL
			Silver	0.66	ug/L	B	NDT	Reported between the MDL and CRDL
			Sodium	559	ug/L	B	NDT	Reported between the MDL and CRDL
			Zinc	2.2	ug/L	B	NDT	Reported between the MDL and CRDL
	FB05-09		Barium	1.9	ug/L	B	NDT	Reported between the MDL and CRDL
			Beryllium	0.1	ug/L	B	NDT	Reported between the MDL and CRDL
			Chromium	1.4	ug/L	B	NDT	Reported between the MDL and CRDL
			Magnesium	12.4	ug/L	B	NDT	Reported between the MDL and CRDL
			Manganese	0.33	ug/L	B	NDT	Reported between the MDL and CRDL
			Silver	0.47	ug/L	B	NDT	Reported between the MDL and CRDL
			Sodium	231	ug/L	B	NDT	Reported between the MDL and CRDL
	MW11-09		Arsenic	4.2	ug/L	B	NDT	Reported between the MDL and CRDL
			Lead	1.7	ug/L	B	NDT	Reported between the MDL and CRDL
	MW23-09		Antimony	2.3	ug/L	B	NDT	Reported between the MDL and CRDL
			Barium	116	ug/L	B	NDT	Reported between the MDL and CRDL
			Beryllium	0.37	ug/L	B	NDT	Reported between the MDL and CRDL
			Cobalt	1.1	ug/L	B	NDT	Reported between the MDL and CRDL
			Copper	4.7	ug/L	B	NDT	Reported between the MDL and CRDL
			Lead	2.9	ug/L	B	NDT	Reported between the MDL and CRDL
			Nickel	10.6	ug/L	B	NDT	Reported between the MDL and CRDL
			Potassium	2220	ug/L	B	NDT	Reported between the MDL and CRDL
			Vanadium	3.3	ug/L	B	NDT	Reported between the MDL and CRDL

ID	Field ID	Analysis	Analyte	result	unit	flag	bias	comment
			Zinc	8.6	ug/L	B	NDT	Reported between the MDL and CRDL
	MW24-09		Aluminum	157	ug/L	B	NDT	Reported between the MDL and CRDL
			Antimony	3.7	ug/L	B	NDT	Reported between the MDL and CRDL
			Barium	199	ug/L	B	NDT	Reported between the MDL and CRDL
			Beryllium	0.18	ug/L	B	NDT	Reported between the MDL and CRDL
			Cadmium	0.84	ug/L	B	NDT	Reported between the MDL and CRDL
			Chromium	5.1	ug/L	B	NDT	Reported between the MDL and CRDL
			Copper	2.9	ug/L	B	NDT	Reported between the MDL and CRDL
			Nickel	4	ug/L	B	NDT	Reported between the MDL and CRDL
			Potassium	1130	ug/L	B	NDT	Reported between the MDL and CRDL
			Vanadium	0.93	ug/L	B	NDT	Reported between the MDL and CRDL
			Zinc	1.5	ug/L	B	NDT	Reported between the MDL and CRDL
			Cyanide	8.1	ug/L	JB	low	Reported between the MDL and CRDL, 14 day holding time exceeded by 26 days.
	MW29-09		Barium	116	ug/L	J	NDT	Reported between the MDL and CRDL
			Beryllium	0.29	ug/L	J	NDT	Reported between the MDL and CRDL
			Cadmium	0.6	ug/L	J	NDT	Reported between the MDL and CRDL
			Cobalt	1.1	ug/L	J	NDT	Reported between the MDL and CRDL
			Copper	8.1	ug/L	J	NDT	Reported between the MDL and CRDL
			Potassium	2760	ug/L	J	NDT	Reported between the MDL and CRDL
			Silver	0.45	ug/L	J	NDT	Reported between the MDL and CRDL
			Vanadium	1.2	ug/L	J	NDT	Reported between the MDL and CRDL
			Zinc	5.6	ug/L	J	NDT	Reported between the MDL and CRDL
	MW30-09		Aluminum	109	ug/L	J	NDT	Reported between the MDL and CRDL
			Antimony	2.6	ug/L	J	NDT	Reported between the MDL and CRDL
			Beryllium	0.24	ug/L	J	NDT	Reported between the MDL and CRDL
			Cadmium	0.56	ug/L	J	NDT	Reported between the MDL and CRDL
			Chromium	3.9	ug/L	J	NDT	Reported between the MDL and CRDL
			Cobalt	5.3	ug/L	J	NDT	Reported between the MDL and CRDL
			Copper	4.4	ug/L	J	NDT	Reported between the MDL and CRDL
			Nickel	10.6	ug/L	J	NDT	Reported between the MDL and CRDL
			Potassium	2230	ug/L	J	NDT	Reported between the MDL and CRDL
			Zinc	2.3	ug/L	J	NDT	Reported between the MDL and CRDL

ID	Field ID	Analysis	Analyte	result	unit	flag	bias	comment
	MW33-09		Aluminum	90.2	ug/L	J	NDT	Reported between the MDL and CRDL
			Antimony	2.3	ug/L	J	NDT	Reported between the MDL and CRDL
			Beryllium	0.4	ug/L	J	NDT	Reported between the MDL and CRDL
			Cadmium	1.5	ug/L	J	NDT	Reported between the MDL and CRDL
			Chromium	5	ug/L	J	NDT	Reported between the MDL and CRDL
			Cobalt	2.9	ug/L	J	NDT	Reported between the MDL and CRDL
			Copper	4.7	ug/L	J	NDT	Reported between the MDL and CRDL
			Nickel	9.2	ug/L	J	NDT	Reported between the MDL and CRDL
			Silver	0.46	ug/L	J	NDT	Reported between the MDL and CRDL
			Vanadium	0.94	ug/L	J	NDT	Reported between the MDL and CRDL
			Zinc	1.4	ug/L	J	NDT	Reported between the MDL and CRDL
	MW37-09		Barium	24.2	ug/L	J	NDT	Reported between the MDL and CRDL
			Beryllium	0.37	ug/L	J	NDT	Reported between the MDL and CRDL
			Chromium	3.7	ug/L	J	NDT	Reported between the MDL and CRDL
			Cobalt	0.99	ug/L	J	NDT	Reported between the MDL and CRDL
			Copper	7.1	ug/L	J	NDT	Reported between the MDL and CRDL
			Lead	1.3	ug/L	J	NDT	Reported between the MDL and CRDL
			Nickel	8.2	ug/L	J	NDT	Reported between the MDL and CRDL
			Potassium	1120	ug/L	J	NDT	Reported between the MDL and CRDL
			Vanadium	1.7	ug/L	J	NDT	Reported between the MDL and CRDL
			Zinc	2.7	ug/L	J	NDT	Reported between the MDL and CRDL
			Cyanide	6.8	ug/L	J	low	Reported between the MDL and CRDL, 14 day holding time exceeded by 26 days.
	MW43-09		Barium	58	ug/L	J	NDT	Reported between the MDL and CRDL
			Beryllium	0.32	ug/L	J	NDT	Reported between the MDL and CRDL
			Chromium	3.4	ug/L	J	NDT	Reported between the MDL and CRDL
			Cobalt	2.1	ug/L	J	NDT	Reported between the MDL and CRDL
			Copper	1.3	ug/L	J	NDT	Reported between the MDL and CRDL
			Nickel	4.3	ug/L	J	NDT	Reported between the MDL and CRDL
			Potassium	465	ug/L	J	NDT	Reported between the MDL and CRDL
			Vanadium	1.6	ug/L	J	NDT	Reported between the MDL and CRDL
	MW46-09		Aluminum	39.2	ug/L	J	NDT	Reported between the MDL and CRDL
			Barium	146	ug/L	J	NDT	Reported between the MDL and CRDL

ID	Field ID	Analysis	Analyte	result	unit	flag	bias	comment
			Beryllium	0.21	ug/L	J	NDT	Reported between the MDL and CRDL
			Potassium	798	ug/L	J	NDT	Reported between the MDL and CRDL
			Vanadium	1.8	ug/L	J	NDT	Reported between the MDL and CRDL
			Zinc	2.2	ug/L	J	NDT	Reported between the MDL and CRDL
	MW47-09		Aluminum	130	ug/L	J	NDT	Reported between the MDL and CRDL
			Antimony	2.3	ug/L	J	NDT	Reported between the MDL and CRDL
			Barium	6.2	ug/L	J	NDT	Reported between the MDL and CRDL
			Beryllium	0.28	ug/L	J	NDT	Reported between the MDL and CRDL
			Chromium	3.2	ug/L	J	NDT	Reported between the MDL and CRDL
			Cobalt	0.74	ug/L	J	NDT	Reported between the MDL and CRDL
			Copper	1.4	ug/L	J	NDT	Reported between the MDL and CRDL
			Lead	1.6	ug/L	J	NDT	Reported between the MDL and CRDL
			Magnesium	2480	ug/L	J	NDT	Reported between the MDL and CRDL
			Manganese	5.4	ug/L	J	NDT	Reported between the MDL and CRDL
			Nickel	1.8	ug/L	J	NDT	Reported between the MDL and CRDL
			Potassium	613	ug/L	J	NDT	Reported between the MDL and CRDL
			Silver	0.58	ug/L	J	NDT	Reported between the MDL and CRDL
			Sodium	4900	ug/L	J	NDT	Reported between the MDL and CRDL
			Vanadium	0.7	ug/L	J	NDT	Reported between the MDL and CRDL
	MW51-09		Aluminum	166	ug/L	J	NDT	Reported between the MDL and CRDL
			Beryllium	0.44	ug/L	J	NDT	Reported between the MDL and CRDL
			Cadmium	0.81	ug/L	J	NDT	Reported between the MDL and CRDL
			Chromium	1.6	ug/L	J	NDT	Reported between the MDL and CRDL
			Cobalt	0.76	ug/L	J	NDT	Reported between the MDL and CRDL
			Copper	1.7	ug/L	J	NDT	Reported between the MDL and CRDL
			Nickel	3.1	ug/L	J	NDT	Reported between the MDL and CRDL
			Potassium	2410	ug/L	J	NDT	Reported between the MDL and CRDL
			Selenium	3.1	ug/L	J	NDT	Reported between the MDL and CRDL
			Vanadium	0.77	ug/L	J	NDT	Reported between the MDL and CRDL
	FB02-09		Calcium	251	ug/L	J	low	CCB conc. Of -49.98
	MW51-09		Zinc	1.1	ug/L	UJ	low	CCB conc. Of -5.19
	MW30-09		Zinc	2.3	ug/L	J	low	CCB conc. Of -5.19
	MW33-09		Zinc	1.4	ug/L	J	low	CCB conc. Of -5.19
	MW46-09		Zinc	2.2	ug/L	J	low	CCB conc. Of -5.19

ID	Field ID	Analysis	Analyte	result	unit	flag	bias	comment
	MW43-09		Zinc	1.1	ug/L	UJ	low	CCB conc. Of -5.19
	FB03-09		Calcium	82.3	ug/L	J	low	CCB conc. Of -42.52
			Sodium	2220	ug/L	J	low	CCB conc. Of -259.60
			Zinc	1.5	ug/L	J	low	CCB conc. Of -5.19
	MW37-09		Zinc	2.7	ug/L	J	low	CCB conc. Of -5.19
	MW23-09		Zinc	8.6	ug/L	J	low	CCB conc. Of -5.19
	MW24-09		Zinc	1.5	ug/L	J	low	CCB conc. Of -5.28
	FB04-09		Calcium	59.4	ug/L	J	low	CCB conc. Of -50.89
			Zinc	2.2	ug/L	J	low	CCB conc. Of -5.28
	MW29-09		Zinc	5.6	ug/L	J	low	CCB conc. Of -5.28
	FB05-09		Calcium	10.7	ug/L	UJ	low	CCB conc. Of -65.53
			Zinc	1.1	ug/L	UJ	low	CCB conc. Of -7.49

Notes:
B - Blank contamination possible
CCB - Continuing calibration blank
CCAL - Continuing calibration
CRDL - Contract required detection limit
ICAL - Initial calibration
J - Estimated
MDL - Method detection limit
MS/MSD - Matrix Spike/Matrix Spike Duplicate
P - Value for which the second column result was different by more than 25%
RSD - Relative standard deviation
ug/L - Micrograms per liter
UJ - Practical quantitation limit (PQL) is estimated

MEMORANDUM

MONTGOMERY WATSON

To:	Trisha Woolslayer, MW	**Date:**	August 24, 1999
From:	Gilbert Dimidjian, MW	**Job No.:**	1252042
Subject:	Data Validation for American Chemical Service (ACS). Griffith, Indiana. June 1999	**SDG:**	007

INTRODUCTION

The following text is based on the validation of water samples collected at American Chemical Service, Inc. in June of 1999.

Five water samples and two field quality assurance samples were analyzed by CompuChem Laboratories, Cary, North Carolina for the following parameters:

- VOA's by CLP – OLM 3.0 (samples MW13-09, MW13-99, MW 53-09, MW52-09, MW49-09, MW34-09, TB05-09)
- SVOA's by CLP – OLM 3.0 (samples MW13-09, MW13-99, MW53-09, MW52-09, MW49-09, MW34-09)
- Pesticides/PCB's by CLP – OLM 3.0 (samples MW13-09, MW13-99, MW53-09, MW52-09, MW49-09)
- Inorganics by CLP – ILM04.0 (samples MW13-09, MW13-99, MW53-09, MW52-09, MW49-09)
- Cyanide by CLP – ILM04.0 (samples MW13-09, MW13-99, MW53-09, MW52-09, MW49-09)

Data validation was conducted in accordance with procedures specified in *Pre-Design Activities Quality Assurance Project Plan (MW, 1995), National Functional Guidelines for Organic Data Review (USEPA, 1994a), and National Functional Guidelines for Inorganic Data Review (USEPA, 1994b).*

The following field quality control samples were collected during the June 1999 sampling round:

- One field duplicate: MW13-99 duplicate of MW13-09; and
- One trip blank: TB05-09

This memorandum contains a narrative summarizing the data quality objectives specified in the work plan, and provides a table of qualified data (Table 1-1 and 1-2) and supporting validation documentation (Attachment A).

SUMMARY

This section describes the quality control parameters reviewed during validation, summarizes the data quality objectives as a result of the validation and provides a summary of the deficiencies and qualification applied. The following paragraphs describe deficiencies that were identified which resulted in qualification of the sample results. Each analyses is separated into sections for clarity.

Volatile Organic Componds

Major Deficiencies: The following paragraphs describe the major deficiencies identified during the validation process.

Holding Time

- All samples for this analysis exceeded the holding time requirement of 14 days by one day. All positive results were qualified as "J" and all non-detects as "UJ" with a low bias.

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

Initial Calibration

- The initial calibration (on 6/20/99;1249) percent relative standard deviation (RSD) for acetone (51.5 percent) were above the control limit of 30 percent. All positive results were qualified as an estimate "J" for acetone. The associated samples were MW13-09, MW13-99, MW 53-09, MW52-09, MW49-09, MW34-09, and TB05-09.

Continuing Calibration

- The continuing calibration CS990629B57 for 2-butanone (30.4 percent) and 1,1,2,2-tetrachloroethane (31.3 percent) had a percent difference that exceeded the control limit of ±25 percent. All positive results were qualified as "J" and all non-detects as "UJ". The associated sample was MW49-09.

Semi-Volatile Organic Compounds

Major Deficiencies: There were no major deficiencies identified during the validation process.

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

Initial Calibration

- The initial calibration (on 6/30/99;2221) %RSD for 2,4-dinitrophenol (36.1 percent) exceeded the control limit of 30 percent. All positive results were qualified as "J"

and all non-detects as "UJ". The associated samples were MW13-99, MW13-09, MW52-09, MW53-09, and MW49-09.

Continuing Calibration

- Continuing calibration HG990714A66 had a percent difference for 3,3-dichlorobenzidine (28.2 percent) and 2,4-dinitrophenol (34.6 percent) that exceeded the control limit of 25 percent. All positive results were qualified as "J" and all non-detects as "UJ". The associated samples were MW13-99, MW13-09, and MW52-09.

- Continuing calibration HG990715A66 had a percent difference for 2,4-dinitrophenol (31.6 percent), 2,4-dinitrotoluene (28.4 percent), and 4,6-dinitro-2-methylphenol (25.5 percent) that exceeded the control limit of 25 percent. All positive results were qualified as "J" and all non-detects as "UJ". The associated samples were MW53-09 and MW49-09.

- Continuing calibration HG990722B66 had a percent difference for 4-nitroaniline (58.1 percent) and 3,3-dichlorobenzidine (26.6 percent) that exceeded the control limit of 25 percent. No qualification was required because there were no associated samples.

Pesticides / PCBs

Major Deficiencies: There were no major deficiencies identified during the validation process.

Minor Deficiencies: Several minor deficiencies are outlined in the Data Quality Objectives section.

Inorganics / Cyanide

Major Deficiencies: The following paragraphs describe the major deficiencies identified during the validation process.

Holding Time

- All samples analyzed for mercury exceeded the holding time requirement of 28 days by eight days. All positive results were qualified as "J" and all non-detects as "UJ" with a low bias.

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

Serial Dilution

- The percent difference for potassium (20.1 percent) exceeded the control limit of ±10% in sample MW49-09L. All positive results were qualified as estimated "J".

Due to a laboratory software limitation the interference check (ICS) recoveries for one sample was not reported (7/22/99, 9:09). This had to be hand calculated and verified by the reviewer.

Several samples contained detected concentrations of target analytes at concentrations between the instrument detection limit (IDL) and the contract required detection limit (CRDL). These were qualified as "B" by the laboratory, but during the validation process these qualifications were changed to a "J" flag which indicates an estimate. Table 1-2 summarizes the affected samples and analytes.

DATA QUALITY OBJECTIVES

The following is a summary of the data quality objectives that were evaluated during the data validation process.

Reporting Limits: Reporting limits were met for all analyses with the following exception.

- For VOCs: Reporting limits were met with the exception of cases in which dilution was necessary. Original, out-of-calibration range data have been included for confirmation of original detection limits and detections, when available. Sample MW52-09 was only analyzed as a dilution due to a high analyte concentration; therefore, no original out of calibration range data was included with this sample package. No data were qualified as a result

Accuracy

Laboratory Control Sample: Validation of the LCS was not performed for the organic analyses because the data was not provided by the laboratory and is not required per OLM 3.0. The LCS for the inorganic analyses were within control limits and analyzed at the correct frequency.

Surrogates: The surrogate results were within laboratory specified limits with the following exceptions.

- For SVOCs: Surrogate 2,4,6-tribromophenol had recoveries above the upper control limit with a high bias. No qualification was required because it meet criteria set forth by the method.

- For Pesticides/PCBs: Surrogate recoveries for DCB were below the lower control limits but were within 10 and 30 percent. All compounds with detections were qualified as "J" and non-detects "UJ". The associated samples include MW53-09, MW52-09, and MW49-09.

Matrix Spike / Matrix Spike Duplicate: The MS/MSD results were within laboratory specified limits with the following exceptions.

- For SVOCs: MS/MSD recoveries exceeded the upper control limits, with a high bias. No qualification was required.

- For Pesticides/PCBs: MS recoveries for various compounds were below control limits, which represented a bias low. All associated data with positive results were qualified as "J" and non-detects were qualified as "UJ". Surrogates had poor recoveries and the RPD were out of control as well.

Precision

Field Duplicates: Field duplicate results were acceptable.

Laboratory Duplicate Sample: For inorganics / cyanide: Lab duplicate MW49-09D had RPDs which exceeded the control limit ranges for antimony, beryllium, cobalt, and copper. All positive results were qualified as estimated "J".

The overall results were acceptable, indicating that sampling and analytical precision objectives were met for the sampling event.

Completeness

The data package was complete for the requested analyses. No results were considered unusable. The completeness was 100 percent, which meets the completeness objective of 95 percent.

Representativeness:

Trip blank TB05-99, had no target analytes detected above the reporting limit for all analyses, indicating that the representativeness objectives for the sampling event were met.

Comparability:

All data were reported in similar units to facilitate comparison of results within the data packages. Samples arrived at the laboratory at 4°C, which is within the limits of 2-6°C. It should be noted that several samples were analyzed by EPA method CLP-VOA OLM3.0, CLP-SVOA OLM3.0, and CLP-Inorganics OLM 4.0 were analyzed after the recommended holding time. Because of the holding time exceedence, comparability might be affected.

As a result of this evaluation, all data within this SDG for wells at American Chemical Service are of known and acceptable quality in relation to the DQOs of this project. Although significant qualification were required due to holding time violation, the data are considered usable as qualified for the intended purposes. Table 1-1 and 1-2 summarizes the validation and laboratory qualifications for this sampling event.

REFERENCES

Pre-Design Activities Quality Assurance Project Plan, American Chemical Service, Inc. NPL Site, Griffith Indiana (MW, 1995).

National Functional Guidelines for Organic Data Review (USEPA, 1994a).

National Functional Guidelines for Inorganic Data Review (USEPA, 1994b).

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
945706	MW13-09 (VOC)	Chloromethane	10	µg/L	UJ	Low	Missed Holding Time
		Bromomethane	10	µg/L	UJ	Low	Missed Holding Time
		Vinyl Chloride	10	µg/L	UJ	Low	Missed Holding Time
		Chloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Methylene Chloride	10	µg/L	UJ	Low	Missed Holding Time
		Acetone	4	µg/L	JB	Low	Missed HT / IC %RSD>30% /, blnk contam. / below RL
		Carbon Disulfide	10	µg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethene	10	µg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Chloroform	10	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		2-Butanone	10	µg/L	UJ	Low	Missed Holding Time
		1,1,1-Trichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Carbon Tetrachloride	10	µg/L	UJ	Low	Missed Holding Time
		Bromodichloromethane	10	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichloropropane	10	µg/L	UJ	Low	Missed Holding Time
		cis-1,3-Dichloropropene	10	µg/L	UJ	Low	Missed Holding Time
		Trichloroethene	10	µg/L	UJ	Low	Missed Holding Time
		Dibromochloromethane	10	µg/L	UJ	Low	Missed Holding Time
		1,1,2-Trichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Benzene	10	µg/L	UJ	Low	Missed Holding Time
		trans-1,3-Dichloropropene	10	µg/L	UJ	Low	Missed Holding Time
		Bromoform	10	µg/L	UJ	Low	Missed Holding Time
		4-Methyl-2-Pentanone	10	µg/L	UJ	Low	Missed Holding Time
		2-Hexanone	10	µg/L	UJ	Low	Missed Holding Time
		Tetrachloroethene	10	µg/L	UJ	Low	Missed Holding Time
		1,1,2,2-Tetrachloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Toluene	10	µg/L	UJ	Low	Missed Holding Time
		Chlorobenzene	10	µg/L	UJ	Low	Missed Holding Time

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW13-09	Ethylbenzene	10	µg/L	UJ	Low	Missed Holding Time
	(VOC)	Styrene	10	µg/L	UJ	Low	Missed Holding Time
		Xylene (total)	10	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethene (total)	10	µg/L	UJ	Low	Missed Holding Time
	(SVOC)	bis (2-ethylhexyl) phthalate	1	µg/L	J	NDT	Detected below RL
		2,4-Dinitrophenol	25	µg/L	UJ	High	IC > CL / CC > CL
		3,3-Dichlorobenzidine	10	µg/L	UJ	High	CC > CL
	(Pest/PCB)	alpha - BHC	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		beta - BHC	0.0055	µg/L	JP	Low	MS %R < CL / MSD RPD > CL />25% diff. btwn 2 columns/below RL
		delta - BHC	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		gamma - BHC (Lindane)	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Heptachlor	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Aldrin	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Heptachlor epoxide	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endosulfan I	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Dieldrin	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		4,4' - DDE	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endrin	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endosulfan II	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		4,4' - DDD	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endosulfan sulfate	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		4,4' - DDT	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Methoxychlor	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endrin ketone	0.0042	µg/L	JP	Low	MS %R < CL / MSD RPD > CL / >25% diff btwn 2 columns/below RL
		Endrin aldehyde	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		alpha - Chlordane	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		gamma - Chlordane	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Toxaphene	5.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW13-09 (Pest/PCB)	Arochlor - 1016	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1221	2.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1232	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1242	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1248	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1254	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1260	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
945669	MW13-99 (VOC)	Chloromethane	10	µg/L	UJ	Low	Missed Holding Time
		Bromomethane	10	µg/L	UJ	Low	Missed Holding Time
		Vinyl Chloride	10	µg/L	UJ	Low	Missed Holding Time
		Chloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Methylene Chloride	2	µg/L	J	Low	Missed Holding Time / blank contamination / below RL
		Acetone	2	µg/L	JB	Low	Missed HT / IC %RSD>30% / blnk contam. / below RL
		Carbon Disulfide	10	µg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethene	10	µg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Chloroform	10	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		2-Butanone	10	µg/L	UJ	Low	Missed Holding Time
		1,1,1-Trichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Carbon Tetrachloride	10	µg/L	UJ	Low	Missed Holding Time
		Bromodichloromethane	10	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichloropropane	10	µg/L	UJ	Low	Missed Holding Time
		cis-1,3-Dichloropropene	10	µg/L	UJ	Low	Missed Holding Time
		Trichloroethene	10	µg/L	UJ	Low	Missed Holding Time
		Dibromochloromethane	10	µg/L	UJ	Low	Missed Holding Time
		1,1,2-Trichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Benzene	10	µg/L	UJ	Low	Missed Holding Time

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW13-99 (VOC)	trans-1,3-Dichloropropene	10	µg/L	UJ	Low	Missed Holding Time
		Bromoform	10	µg/L	UJ	Low	Missed Holding Time
		4-Methyl-2-Pentanone	10	µg/L	UJ	Low	Missed Holding Time
		2-Hexanone	10	µg/L	UJ	Low	Missed Holding Time
		Tetrachloroethene	10	µg/L	UJ	Low	Missed Holding Time
		1,1,2,2-Tetrachloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Toluene	10	µg/L	UJ	Low	Missed Holding Time
		Chlorobenzene	10	µg/L	UJ	Low	Missed Holding Time
		Ethylbenzene	10	µg/L	UJ	Low	Missed Holding Time
		Styrene	10	µg/L	UJ	Low	Missed Holding Time
		Xylene (total)	10	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethene (total)	10	µg/L	UJ	Low	Missed Holding Time
	(SVOC)	2,4-Dinitrophenol	25	µg/L	UJ	High	IC > CL / CC > CL
		3,3-Dichlorobenzidine	10	µg/L	UJ	High	CC > CL
	(Pest/PCB)	alpha - BHC	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		beta - BHC	0.0067	µg/L	JP	Low	MS %R < CL / MSD RPD > CL />25% diff. btwn 2 columns/below RL
		delta - BHC	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		gamma - BHC (Lindane)	0.0043	µg/L	J	Low	MS %R < CL / MSD RPD > CL / below RL
		Heptachlor	0.0031	µg/L	JP	Low	MS %R < CL / MSD RPD > CL />25% diff. btwn 2 columns/below RL
		Aldrin	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Heptachlor epoxide	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endosulfan I	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Dieldrin	0.0056	µg/L	J	Low	MS %R < CL / MSD RPD > CL />25% diff. btwn 2 columns/below RL
		4,4' - DDE	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endrin	0.0060	µg/L	J	Low	MS %R < CL / MSD RPD > CL / below RL
		Endosulfan II	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW13-99 (Pest/PCB)	4,4' - DDE	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endosulfan sulfate	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		4,4' - DDT	0.0076	µg/L	J	Low	MS %R < CL / MSD RPD > CL / below RL
		Methoxychlor	0.50	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endrin ketone	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endrin aldehyde	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		alpha - Chlordane	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		gamma - Chlordane	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Toxaphene	5.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1016	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1221	2.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1232	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1242	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1248	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1254	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1260	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
945707	MW34-09 (VOC)	Vinyl Chloride	10	µg/L	UJ	Low	Missed Holding Time
		Chloroethane	10	µg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethene	10	µg/L	UJ	Low	Missed Holding Time
		1,1,1-Trichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Trichloroethene	10	µg/L	UJ	Low	Missed Holding Time
		1,1,2-Trichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Benzene	10	µg/L	UJ	Low	Missed Holding Time
		Tetrachloroethene	10	µg/L	UJ	Low	Missed Holding Time
		cis-1,2-Dichloroethene	10	µg/L	UJ	Low	Missed Holding Time
		trans-1,2-Dichloroethene	10	µg/L	UJ	Low	Missed Holding Time

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
945689	MW49-09 (VOC)	Chloromethane	10	µg/L	UJ	Low	Missed Holding Time
		Bromomethane	10	µg/L	UJ	Low	Missed Holding Time
		Vinyl Chloride	10	µg/L	UJ	Low	Missed Holding Time
		Chloroethane	220	µg/L	DJ	Low	Missed Holding Time / Diluted
		Methylene Chloride	2	µg/L	J	Low	Missed Holding Time / blank contamination
		Acetone	9	µg/L	JB	Low	Missed HT / IC %RSD>30% / blnk contam. / below RL
		Carbon Disulfide	10	µg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethene	10	µg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Chloroform	10	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		2-Butanone	1	µg/L	JB	Low	Missed Holding Time / blnk contam. / CC > CL / below RL
		1,1,1-Trichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Carbon Tetrachloride	10	µg/L	UJ	Low	Missed Holding Time
		Bromodichloromethane	10	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichloropropane	10	µg/L	UJ	Low	Missed Holding Time
		cis-1,3-Dichloropropene	10	µg/L	UJ	Low	Missed Holding Time
		Trichloroethene	10	µg/L	UJ	Low	Missed Holding Time
		Dibromochloromethane	10	µg/L	UJ	Low	Missed Holding Time
		1,1,2-Trichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Benzene	2600	µg/L	JD	Low	Missed Holding Time / Diluted
		trans-1,3-Dichloropropene	10	µg/L	UJ	Low	Missed Holding Time
		Bromoform	10	µg/L	UJ	Low	Missed Holding Time
		4-Methyl-2-Pentanone	10	µg/L	UJ	Low	Missed Holding Time
		2-Hexanone	10	µg/L	UJ	Low	Missed Holding Time
		Tetrachloroethene	10	µg/L	UJ	Low	Missed Holding Time
		1,1,2,2-Tetrachloroethane	10	µg/L	UJ	Low	Missed Holding Time / CC > CL
		Toluene	1	µg/L	J	Low	Missed Holding Time / below RL

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW49-09	Chlorobenzene	10	µg/L	UJ	Low	Missed Holding Time
	(VOC)	Ethylbenzene	10	µg/L	UJ	Low	Missed Holding Time
		Styrene	10	µg/L	UJ	Low	Missed Holding Time
		Xylene (total)	10	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethene (total)	2	µg/L	J	Low	Missed Holding Time / below RL
	(SVOC)	2,2-oxybis (1-Chloropropane)	9	µg/L	J	NDT	Detected below RL
		Isophorone	3	µg/L	J	NDT	Detected below RL
		2,4-Dinitrophenol	25	µg/L	UJ	High	IC > CL / CC > CL
		2,4-Dinitrotoluene	10	µg/L	UJ	High	CC > CL
		4,6-Dinitro-2-Methylphenol	25	µg/L	UJ	High	CC > CL
	(Pest/PCB)	alpha - BHC	0.048	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		beta - BHC	0.048	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		delta - BHC	0.0019	µg/L	JP	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL / below RL
		gamma - BHC (Lindane)	0.048	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Heptachlor	0.0083	µg/L	JP	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL / below RL
		Aldrin	0.048	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Heptachlor epoxide	0.048	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan I	0.048	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Dieldrin	0.095	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDE	0.095	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endrin	0.095	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan II	0.095	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDD	0.095	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan sulfate	0.095	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDT	0.095	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Methoxychlor	0.48	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW49-09 (Pest/PCB)	Endrin ketone	0.0044	µg/L	JP	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL / below RL
		Endrin aldehyde	0.095	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		alpha - Chlordane	0.048	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		gamma - Chlordane	0.048	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Toxaphene	4.8	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1016	0.95	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1221	1.9	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1232	0.95	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1242	0.95	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1248	0.95	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1254	0.95	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1260	0.95	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
945688	MW52-09	Chloromethane	100	µg/L	UJ	Low	Missed Holding Time
		Bromomethane	100	µg/L	UJ	Low	Missed Holding Time
		Vinyl Chloride	100	µg/L	UJ	Low	Missed Holding Time
		Chloroethane	100	µg/L	UJ	Low	Missed Holding Time
		Methylene Chloride	100	µg/L	UJ	Low	Missed Holding Time
		Acetone	100	µg/L	UJ	Low	Missed Holding Time / IC %RSD >30%
		Carbon Disulfide	100	µg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethene	100	µg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethane	100	µg/L	UJ	Low	Missed Holding Time
		Chloroform	100	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethane	100	µg/L	UJ	Low	Missed Holding Time
		2-Butanone	100	µg/L	UJ	Low	Missed Holding Time
		1,1,1-Trichloroethane	100	µg/L	UJ	Low	Missed Holding Time
		Carbon Tetrachloride	100	µg/L	UJ	Low	Missed Holding Time
		Bromodichloromethane	100	µg/L	UJ	Low	Missed Holding Time

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW52-09	1,2-Dichloropropane	100	µg/L	UJ	Low	Missed Holding Time
	(VOC)	cis-1,3-Dichloropropene	100	µg/L	UJ	Low	Missed Holding Time
		Trichloroethene	100	µg/L	UJ	Low	Missed Holding Time
		Dibromochloromethane	100	µg/L	UJ	Low	Missed Holding Time
		1,1,2-Trichloroethane	100	µg/L	UJ	Low	Missed Holding Time
		Benzene	100	µg/L	UJ	Low	Missed Holding Time
		trans-1,3-Dichloropropene	100	µg/L	UJ	Low	Missed Holding Time
		Bromoform	100	µg/L	UJ	Low	Missed Holding Time
		4-Methyl-2-Pentanone	100	µg/L	UJ	Low	Missed Holding Time
		2-Hexanone	100	µg/L	UJ	Low	Missed Holding Time
		Tetrachloroethene	100	µg/L	UJ	Low	Missed Holding Time
		1,1,2,2-Tetrachloroethane	100	µg/L	UJ	Low	Missed Holding Time
		Toluene	100	µg/L	UJ	Low	Missed Holding Time
		Chlorobenzene	100	µg/L	UJ	Low	Missed Holding Time
		Ethylbenzene	100	µg/L	UJ	Low	Missed Holding Time
		Styrene	100	µg/L	UJ	Low	Missed Holding Time
		Xylene (total)	100	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethene (total)	100	µg/L	UJ	Low	Missed Holding Time
	(SVOC)	bis(2-ethylhexyl)phthalate	6	µg/L	J	NDT	Detected below RL
		2,4-Dinitrophenol	25	µg/L	UJ	High	IC > CL / CC > CL
		3,3-Dichlorobenzidine	10	µg/L	UJ	High	CC > CL
	(Pest/PCB)	alpha - BHC	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		beta - BHC	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		delta - BHC	0.0025	µg/L	J	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL / below RL
		gamma - BHC (Lindane)	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Heptachlor	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW52-09	Aldrin	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
	(Pest/PCB)	Heptachlor epoxide	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan I	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Dieldrin	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDE	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endrin	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan II	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDD	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan sulfate	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDT	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Methoxychlor	0.50	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endrin ketone	0.0038	µg/L	JP	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL / below RL
		Endrin aldehyde	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		alpha - Chlordane	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		gamma - Chlordane	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Toxaphene	5.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1016	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1221	2.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1232	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1242	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1248	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1254	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1260	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
945704	MW53-09	Chloromethane	10	µg/L	UJ	Low	Missed Holding Time
	(VOC)	Bromomethane	10	µg/L	UJ	Low	Missed Holding Time
		Vinyl Chloride	10	µg/L	UJ	Low	Missed Holding Time
		Chloroethane	10	µg/L	UJ	Low	Missed Holding Time

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW53-09	Methylene Chloride	100	µg/L	J	Low	Missed Holding Time / blank contamination
	(VOC)	Acetone	30	µg/L	JB	Low	Missed Holding Time / IC %RSD>30% / blnk contam.
		Carbon Disulfide	10	µg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethene	10	µg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Chloroform	10	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		2-Butanone	3	µg/L	JB	Low	Missed Holding Time / blnk contam. / below RL
		1,1,1-Trichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Carbon Tetrachloride	10	µg/L	UJ	Low	Missed Holding Time
		Bromodichloromethane	10	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichloropropane	10	µg/L	UJ	Low	Missed Holding Time
		cis-1,3-Dichloropropene	10	µg/L	UJ	Low	Missed Holding Time
		Trichloroethene	10	µg/L	UJ	Low	Missed Holding Time
		Dibromochloromethane	10	µg/L	UJ	Low	Missed Holding Time
		1,1,2-Trichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Benzene	4	µg/L	J	Low	Missed Holding Time / below RL
		trans-1,3-Dichloropropene	10	µg/L	UJ	Low	Missed Holding Time
		Bromoform	10	µg/L	UJ	Low	Missed Holding Time
		4-Methyl-2-Pentanone	3	µg/L	JB	Low	Missed Holding Time / blnk contam. / below RL
		2-Hexanone	10	µg/L	UJ	Low	Missed Holding Time
		Tetrachloroethene	10	µg/L	UJ	Low	Missed Holding Time
		1,1,2,2-Tetrachloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Toluene	1	µg/L	J	Low	Missed Holding Time / below RL
		Chlorobenzene	10	µg/L	UJ	Low	Missed Holding Time
		Ethylbenzene	10	µg/L	UJ	Low	Missed Holding Time
		Styrene	10	µg/L	UJ	Low	Missed Holding Time
		Xylene (total)	10	µg/L	UJ	Low	Missed Holding Time

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW53-09 (VOC)	1,2-Dichloroethene (total)	10	µg/L	UJ	Low	Missed Holding Time
	(SVOC)	2,4-Dinitrophenol	25	µg/L	UJ	High	IC > CL / CC > CL
		2,4-Dinitrotoluene	10	µg/L	UJ	High	CC > CL
		4,6-Dinitro-2-Methylphenol	25	µg/L	UJ	High	CC > CL
	(Pest/PCB)	alpha - BHC	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		beta - BHC	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		delta - BHC	0.0082	µg/L	J	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL / below RL
		gamma - BHC (Lindane)	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Heptachlor	0.0085	µg/L	JP	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL / below RL
		Aldrin	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Heptachlor epoxide	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan I	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Dieldrin	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDE	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endrin	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan II	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDD	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan sulfate	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDT	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Methoxychlor	0.50	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endrin ketone	0.0069	µg/L	JP	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL / below RL
		Endrin aldehyde	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		alpha - Chlordane	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		gamma - Chlordane	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Toxaphene	5.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW53-09	Arochlor - 1016	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
	(Pest/PCB)	Arochlor - 1221	2.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1232	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1242	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1248	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1254	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1260	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
945708	TB05-09	Chloromethane	10	µg/L	UJ	Low	Missed Holding Time
	(VOC)	Bromomethane	10	µg/L	UJ	Low	Missed Holding Time
		Vinyl Chloride	10	µg/L	UJ	Low	Missed Holding Time
		Chloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Methylene Chloride	2	µg/L	J	Low	Missed Holding Time / blank contamination / below RL
		Acetone	2	µg/L	JB	Low	Missed Holding Time / blnk contam. / below RL
		Carbon Disulfide	10	µg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethene	10	µg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Chloroform	10	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		2-Butanone	10	µg/L	UJ	Low	Missed Holding Time
		1,1,1-Trichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Carbon Tetrachloride	10	µg/L	UJ	Low	Missed Holding Time
		Bromodichloromethane	10	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichloropropane	10	µg/L	UJ	Low	Missed Holding Time
		cis-1,3-Dichloropropene	10	µg/L	UJ	Low	Missed Holding Time
		Trichloroethene	10	µg/L	UJ	Low	Missed Holding Time
		Dibromochloromethane	10	µg/L	UJ	Low	Missed Holding Time
		1,1,2-Trichloroethane	10	µg/L	UJ	Low	Missed Holding Time

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	TB05-09 (VOC)	Benzene	10	µg/L	UJ	Low	Missed Holding Time
		trans-1,3-Dichloropropene	10	µg/L	UJ	Low	Missed Holding Time
		Bromoform	10	µg/L	UJ	Low	Missed Holding Time
		4-Methyl-2-Pentanone	10	µg/L	UJ	Low	Missed Holding Time
		2-Hexanone	10	µg/L	UJ	Low	Missed Holding Time
		Tetrachloroethene	10	µg/L	UJ	Low	Missed Holding Time
		1,1,2,2-Tetrachloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Toluene	10	µg/L	UJ	Low	Missed Holding Time
		Chlorobenzene	10	µg/L	UJ	Low	Missed Holding Time
		Ethylbenzene	10	µg/L	UJ	Low	Missed Holding Time
		Styrene	10	µg/L	UJ	Low	Missed Holding Time
		Xylene (total)	10	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethene (total)	10	µg/L	UJ	Low	Missed Holding Time

B - Blank contamination
CC - Continuing calibration
CL - Control limit
D - Sample was diluted
HT - Holding time
IC - Initial calibration
J - Estimated value
µg/L - micrograms/Liter
MS - Matrix spike
MSD - Matrix spike duplicate
NDT - Not Determined
R - Recovery
RL - Reporting limit
RPD - Relative percent deviation
RSD - Relative standard deviation
U - The associated value is at or below MDL.

TABLE 1-2

SUMMARY OF INORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
945706	MW13-09	Aluminum	50.2	µg/L	J	NDT	Detected below RL
		Arsenic	2.2	µg/L	J	NDT	Detected below RL
		Barium	83.2	µg/L	J	NDT	Detected below RL
		Beryllium	0.19	µg/L	JB	High	Duplicate %RPD > CL / below RL
		Cadmium	1.2	µg/L	J	NDT	Detected below RL
		Mercury	0.02	µg/L	UJ	Low	Missed Holding Time
		Nickel	1.4	µg/L	J	NDT	Detected below RL
		Potassium	1720	µg/L	JB	High	Serial Dilution %Difference > CL / below RL
		Vanadium	0.89	µg/L	J	NDT	Detected below RL
		Zinc	2.0	µg/L	J	NDT	Detected below RL
945669	MW13-99	Aluminum	51.1	µg/L	J	NDT	Detected below RL
		Antimony	2.1	µg/L	JB	High	Duplicate %RPD > CL / below RL
		Barium	84.1	µg/L	J	NDT	Detected below RL
		Beryllium	0.23	µg/L	JB	High	Duplicate %RPD > CL / below RL
		Cadmium	1.3	µg/L	J	NDT	Detected below RL
		Mercury	0.02	µg/L	JB	Low	Missed Holding Time / below RL
		Nickel	1.3	µg/L	J	NDT	Detected below RL
		Potassium	1650	µg/L	JB	High	Serial Dilution %Difference > CL / below RL
		Vanadium	1.1	µg/L	J	NDT	Detected below RL
945707	MW34-09	Aluminum	119	µg/L	J	NDT	Detected below RL
		Barium	187	µg/L	J	NDT	Detected below RL
		Cadmium	0.58	µg/L	J	NDT	Detected below RL
		Cobalt	0.70	µg/L	JB	High	Duplicate %RPD > CL / below RL
		Copper	7.7	µg/L	JB	High	Duplicate %RPD > CL / below RL
		Lead	1.1	µg/L	J	NDT	Detected below RL

TABLE 1-2

SUMMARY OF INORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW34-09	Mercury	0.02	µg/L	UJ	Low	Missed Holding Time
		Nickel	12.3	µg/L	J	NDT	Detected below RL
		Potassium	3820	µg/L	JB	High	Serial Dilution %Difference > CL / below RL
		Zinc	5.6	µg/L	J	NDT	Detected below RL
945689	MW49-09	Antimony	42.4	µg/L	JB	High	Duplicate %RPD > CL / below RL
		Barium	117	µg/L	J	NDT	Detected below RL
		Beryllium	0.53	µg/L	JB	High	Duplicate %RPD > CL / below RL
		Chromium	1.9	µg/L	J	NDT	Detected below RL
		Cobalt	1.3	µg/L	JB	High	Duplicate %RPD > CL / below RL
		Copper	2.0	µg/L	JB	High	Duplicate %RPD > CL / below RL
		Mercury	0.02	µg/L	UJ	Low	Missed Holding Time
		Nickel	5.5	µg/L	J	NDT	Detected below RL
		Potassium	4030	µg/L	JB	High	Serial Dilution %Difference > CL / below RL
		Selenium	3.5	µg/L	J	NDT	Detected below RL
		Thallium	8.0	µg/L	J	NDT	Detected below RL
		Vanadium	3.6	µg/L	J	NDT	Detected below RL
		Zinc	10.3	µg/L	J	NDT	Detected below RL
945688	MW52-09	Arsenic	3.3	µg/L	J	NDT	Detected below RL
		Beryllium	0.16	µg/L	JB	High	Duplicate %RPD > CL / below RL
		Cadmium	0.86	µg/L	J	NDT	Detected below RL
		Chromium	3	µg/L	J	NDT	Detected below RL
		Cobalt	1.1	µg/L	JB	High	Duplicate %RPD > CL / below RL
		Copper	1.9	µg/L	JB	High	Duplicate %RPD > CL / below RL
		Cyanide	9	µg/L	J	NDT	Detected below RL
		Mercury	0.02	µg/L	UJ	Low	Missed Holding Time

TAB 1-2

SUMMARY OF INORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW52-09	Nickel	5	µg/L	J	NDT	Detected below RL
		Potassium	2360	µg/L	JB	High	Serial Dilution %Difference > CL / below RL
		Silver	0.36	µg/L	J	NDT	Detected below RL
		Vanadium	1.3	µg/L	J	NDT	Detected below RL
		Zinc	1.2	µg/L	J	NDT	Detected below RL
945704	MW53-09	Antimony	3.3	µg/L	JB	High	Duplicate %RPD > CL / below RL
		Arsenic	3.4	µg/L	J	NDT	Detected below RL
		Beryllium	0.29	µg/L	JB	High	Duplicate %RPD > CL / below RL
		Cadmium	1.4	µg/L	J	NDT	Detected below RL
		Chromium	2.3	µg/L	J	NDT	Detected below RL
		Cobalt	3.2	µg/L	JB	High	Duplicate %RPD > CL / below RL
		Mercury	0.08	µg/L	JB	Low	Missed Holding Time / below RL
		Nickel	8.6	µg/L	J	NDT	Detected below RL
		Potassium	20900	µg/L	J	High	Serial Dilution %Difference > CL
		Vanadium	1.9	µg/L	J	NDT	Detected below RL
		Zinc	1.5	µg/L	J	NDT	Detected below RL

B - The associated value is detected above the IDL, but below the CRDL.
CL - Control limit
CRDL - Contract required detection limit
IDL - Instrument detection limit
J - Estimated value
µg/L - micrograms/Liter
RL - Reporting limit
RPD - Relative percent deviation
U - The associated value is at or below IDL.

VALIDATION NARRATIVE

Project:	ACS – quarterly GW sampling	**Analysis:**	o-Phos, Nitrate/Nitrite, Sulfate, TKN, Ammonia, TOC
Number:	34200	**Matrix:**	Water
Validated by:	**JFW**	**Date:**	10/12/99
		SDG:	00002

This narrative summarizes the results of the data validation of one groundwater sample from the American Chemical Service (ACS) site. The quarterly groundwater monitoring sample was analyzed by CompuChem for natural attenuation parameters. Data validation was performed using the *USEPA Contract Laboratory Program National Functional Guidelines of Organic Analysis Review (February 1994)*. Based on the data validation, the data are valid and are acceptable for use in site evaluation. The following summarizes the results of the data validation.

Holding Time: Holding times were met for all analyses.

Instrument Performance: Not applicable.

Calibration: Initial and continuing calibration results met acceptance criteria.

Blanks: Method blanks were free of target analytes.

Surrogates: Not applicable.

Matrix Spikes: Sample ID MW18-09 was selected for MS/MSD analyses. Results met acceptance criteria for all analyses.

Field duplicates: Field duplicates were not analyzed.

Internal Standards: Not applicable.

Compound Identification: Not applicable.

System Performance: Not applicable.

Sample Results: The sample results are acceptable according to the QC results and raw data provided.

VALIDATION NARRATIVE

Project:	ACS – quarterly GW sampling	**Analysis:**	o-Phos, Nitrate/Nitrite, Sulfate, TKN, Ammonia, TOC
Number:	34200	**Matrix:**	Water
Validated by:	**JFW**	**Date:**	10/12/99
		SDG:	00003

This narrative summarizes the results of the data validation of one groundwater sample from the American Chemical Service (ACS) site. The quarterly groundwater monitoring sample was analyzed by CompuChem for natural attenuation parameters. Data validation was performed using the *USEPA Contract Laboratory Program National Functional Guidelines of Organic Analysis Review (February 1994)*. Based on the data validation, the data are valid and are acceptable for use in site evaluation. The following summarizes the results of the data validation.

Holding Time: Holding times were met for all analyses.

Instrument Performance: Not applicable.

Calibration: Initial and continuing calibration results met acceptance criteria.

Blanks: Method blanks were free of target analytes.

Surrogates: Not applicable.

Matrix Spikes: Sample ID ACSGWMW19-09 was selected for MS/MSD analyses. Results met acceptance criteria with the exception of TKN. Percent recoveries were less than one due to dilution required for analysis, therefore sample results were not qualified.

Field duplicates: Field duplicates were not analyzed.

Internal Standards: Not applicable.

Compound Identification: Not applicable.

System Performance: Not applicable.

Sample Results: The sample results are acceptable according to the QC results and raw data provided.

VALIDATION NARRATIVE

Project:	ACS – quarterly GW sampling	**Analysis:**	o-Phos, Nitrate/Nitrite, Sulfate, TKN, Ammonia, TOC
Number:	34200	**Matrix:**	Water
Validated by:	**JFW**	**Date:**	10/12/99
		SDG:	00007

This narrative summarizes the results of the data validation of one groundwater sample from the American Chemical Service (ACS) site. The quarterly groundwater monitoring sample was analyzed by CompuChem for natural attenuation parameters. Data validation was performed using the *USEPA Contract Laboratory Program National Functional Guidelines of Organic Analysis Review (February 1994)*. Based on the data validation, the data are valid as qualified and are acceptable for use in site evaluation. The following summarizes the results of the data validation. Please see Table 1 for a summary of qualified results.

Holding Time: Holding times were met for all analyses with the exception of TKN in sample IDs MW48-09 and MW48-99. TKN results for these samples are qualified with a J as estimates.

Instrument Performance: Not applicable.

Calibration: Initial and continuing calibration results met acceptance criteria.

Blanks: Method blanks were free of target analytes.

Surrogates: Not applicable.

Matrix Spikes: Sample ID ACSGWMW19-09 was selected for MS/MSD analyses. Results met acceptance criteria with the exception of TKN. Percent recoveries were less than one due to dilution required for analysis, therefore sample results were not qualified.

Field duplicates: Field duplicate results were in good agreement.

Internal Standards: Not applicable.

Compound Identification: Not applicable.

System Performance: Not applicable.

Sample Results: The sample results are acceptable as qualified according to the QC results and raw data provided.
QC data was not provided by the laboratory, thus data quality could not be fully evaluated.

Table 1-1
Summary of Qualified Data for ACS Quarterly Groundwater Monitoring (SDG0007 – June '99)

Sample	Compound	Concentration (mg/L)	Qualifiers	Reason
MW48-09R	Total Kjeldahl Nitrogen	5.1	J	Samples was analyzed one day past the 28 day holding time, thus result is an estimate.
MW48-99	Total Kjeldahl Nitrogen	5.3	J	Samples was analyzed one day past the 28 day holding time, thus result is an estimate.

J Data are considered estimated

VALIDATION NARRATIVE

Project:	ACS – quarterly GW sampling	**Analysis:**	BODs
Number:	99-0438	**Matrix:**	Water
Validated by:	**JFW**	**Date:**	11/04/99
		SDG:	NA

This narrative summarizes the results of the data validation of three groundwater samples from the American Chemical Service (ACS) site. The quarterly groundwater monitoring samples were analyzed by TriTest, Inc. for Biological Oxygen Demand (BOD) by EPA Method 405.1. Data validation was performed using the *USEPA Contract Laboratory Program National Functional Guidelines of Organic Analysis Review (February 1994)*. Based on the data validation, the data are valid and acceptable for use in site evaluation. The following summarizes the results of the data validation.

Holding Time: All samples were analyzed within specified holding times.

Instrument Performance: Not applicable.

Calibration: Samples were analyzed under acceptable calibration.

Blanks: Blanks were free of BOD at the reporting limit.

Surrogates: Not applicable.

Matrix Spikes: Not applicable.

Field duplicates: There were no field duplicates.

Internal Standards: Not applicable.

Compound Identification: Not applicable.

System Performance: Not applicable.

Sample Results: All QC criteria were met and results correctly reported based on the raw data.

VALIDATION NARRATIVE

Project:	ACS – quarterly GW sampling	**Analysis:**	BODs
Number:	99-0433	**Matrix:**	Water
Validated by:	**JFW**	**Date:**	11/02/99
		SDG:	NA

This narrative summarizes the results of the data validation of five groundwater samples from the American Chemical Service (ACS) site. The quarterly groundwater monitoring samples were analyzed by TestAmerica for Biological Oxygen Demand (BOD) by Standard methods 5210B. Data validation was performed using the *USEPA Contract Laboratory Program National Functional Guidelines of Organic Analysis Review (February 1994)*. Based on the data validation, the data are valid as qualified and are acceptable for use in site evaluation. The following summarizes the results of the data validation. Please refer to Table 1-1 for a summary of qualified data.

Holding Time: All samples were analyzed within specified holding times.

Instrument Performance: Not applicable.

Calibration: Calibration of electrode not reported.

Blanks: Not applicable.

Surrogates: Not applicable.

Matrix Spikes: Not applicable.

Field duplicates: There were no field duplicates.

Internal Standards: Not applicable.

Compound Identification: Not applicable.

System Performance: Not applicable.

Sample Results: Results were qualified with a J as estimates since the cooler temperature was 17.8 °C.

Table 1-1
Summary of Qualified BOD Data for ACS Quarterly Groundwater Monitoring (SDG99-0433 – June '99)

Sample	Compound	Concentration (mg/L)	Qualifiers	Reason
MW18-09	Biological Oxygen Demand	< 2.0	J	Result is an estimate since the cooler temperature was 17.8 °C.
MW38-09	Biological Oxygen Demand	3.4	J	Result is an estimate since the cooler temperature was 17.8 °C.
MW40-09	Biological Oxygen Demand	<2.0	J	Result is an estimate since the cooler temperature was 17.8 °C.
MW48-09	Biological Oxygen Demand	11.0	J	Result is an estimate since the cooler temperature was 17.8 °C.
MW39-09	Biological Oxygen Demand	2.9	J	Result is an estimate since the cooler temperature was 17.8 °C.

J Data are considered estimated.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M1S-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945283

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045283A57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
71-55-6	1,1,1-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	2	J
127-18-4	Tetrachloroethene	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

M1S-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945283

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045283a57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	60-29-7	ETHER	7.54	9	NJ
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
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17.					
18.					
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23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

M1S-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix (scil/water): WATER Lab Sample ID: 945283

Level (low/med): LOW Date Received: 06/12/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M4S-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945258

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045258B57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 10.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	100	U
74-83-9	Bromomethane	100	U
75-01-4	Vinyl Chloride	100	U
75-00-3	Chloroethane	1600	
75-09-2	Methylene Chloride	19	J
67-64-1	Acetone	26	JB
75-15-0	Carbon Disulfide	100	U
75-35-4	1,1-Dichloroethene	100	U
75-34-3	1,1-Dichloroethane	100	U
67-66-3	Chloroform	100	U
107-06-2	1,2-Dichloroethane	100	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	100	U
56-23-5	Carbon Tetrachloride	100	U
75-27-4	Bromodichloromethane	100	U
78-87-5	1,2-Dichloropropane	100	U
10061-01-5	cis-1,3-Dichloropropene	100	U
79-01-6	Trichloroethene	100	U
124-48-1	Dibromochloromethane	100	U
79-00-5	1,1,2-Trichloroethane	100	U
71-43-2	Benzene	180	
10061-02-6	trans-1,3-Dichloropropene	100	U
75-25-2	Bromoform	100	U
108-10-1	4-Methyl-2-Pentanone	100	U
591-78-6	2-Hexanone	100	U
127-18-4	Tetrachloroethene	100	U
79-34-5	1,1,2,2-Tetrachloroethane	100	U
108-88-3	Toluene	100	U
108-90-7	Chlorobenzene	100	U
100-41-4	Ethylbenzene	100	U
100-42-5	Styrene	100	U
1330-20-7	Xylene (Total)	100	U
540-59-0	1,2-Dichloroethene (total)	100	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

M4S-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945258

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045258b57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 10.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	109-99-9	FURAN, TETRAHYDRO-	11.98	466	NJ
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M4S-99

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945259

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045259B57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 10.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	100	U
74-83-9	Bromomethane	100	U
75-01-4	Vinyl Chloride	100	U
75-00-3	Chloroethane	1500	
75-09-2	Methylene Chloride	18	J
67-64-1	Acetone	24	JB
75-15-0	Carbon Disulfide	100	U
75-35-4	1,1-Dichloroethene	100	U
75-34-3	1,1-Dichloroethane	100	U
67-66-3	Chloroform	100	U
107-06-2	1,2-Dichloroethane	100	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	100	U
56-23-5	Carbon Tetrachloride	100	U
75-27-4	Bromodichloromethane	100	U
78-87-5	1,2-Dichloropropane	100	U
10061-01-5	cis-1,3-Dichloropropene	100	U
79-01-6	Trichloroethene	100	U
124-48-1	Dibromochloromethane	100	U
79-00-5	1,1,2-Trichloroethane	100	U
71-43-2	Benzene	170	
10061-02-6	trans-1,3-Dichloropropene	100	U
75-25-2	Bromoform	100	U
108-10-1	4-Methyl-2-Pentanone	100	U
591-78-6	2-Hexanone	100	U
127-18-4	Tetrachloroethene	100	U
79-34-5	1,1,2,2-Tetrachloroethane	100	U
108-88-3	Toluene	100	U
108-90-7	Chlorobenzene	100	U
100-41-4	Ethylbenzene	100	U
100-42-5	Styrene	100	U
1330-20-7	Xylene (Total)	100	U
540-59-0	1,2-Dichloroethene (total)	100	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

M4S-99

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945259

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045259b57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 10.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	109-99-9	FURAN, TETRAHYDRO-	11.99	485	NJ
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
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EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW4S-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945258

Sample wt/vol: 900 (g/mL) ML Lab File ID: GH045258B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)ether	72	
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	2,2'-oxybis(1-Chloropropane)	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	28	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	28	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U
99-09-2	3-Nitroaniline	28	U
83-32-9	Acenaphthene	11	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4S-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945258

Sample wt/vol: 900 (g/mL) ML Lab File ID: GH045258B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	28	U
100-02-7	4-Nitrophenol	28	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	28	U
534-52-1	4,6-Dinitro-2-methylphenol	28	U
86-30-6	N-nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	28	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
86-74-8	Carbazole	11	U
84-74-2	Di-n-butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	11	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
117-84-0	Di-n-octylphthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW4S-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945258

Sample wt/vol: 900 (g/mL) ML Lab File ID: GH045258B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	4.75	24	J
2.		UNKNOWN	5.21	28	J
3.	873-94-9	CYCLOHEXANONE, 3,3,5-TRIMETH	5.61	11	NJ
4.		UNKNOWN	5.88	10	J
5.		UNKNOWN	6.83	620	J
6.		UNKNOWN	6.86	92	J
7.		UNKNOWN	6.93	23	J
8.		UNKNOWN	7.03	13	J
9.		UNKNOWN	7.38	12	J
10.		UNKNOWN	7.42	14	J
11.		UNKNOWN	7.87	22	J
12.		UNKNOWN	8.18	66	J
13.		UNKNOWN	8.30	18	J
14.		UNKNOWN	8.38	34	J
15.		UNKNOWN	8.70	10	J
16.		UNKNOWN	8.87	12	J
17.		UNKNOWN	9.01	24	J
18.	499-06-9	BENZOIC ACID, 3,5-DIMETHYL-	9.29	12	NJ
19.		UNKNOWN	9.38	16	J
20.		UNKNOWN	9.45	14	J
21.		UNKNOWN	9.85	20	J
22.		UNKNOWN	10.02	32	J
23.	101-10-0	PROPANOIC ACID, 2-(3-CHLOROP	10.65	11	NJ
24.		UNKNOWN	11.78	11	J
25.		UNKNOWN	12.08	10	J
26.	76-73-3	SECOBARBITAL	12.25	23	NJ
27.	2564-83-2	1-PIPERIDINYLOXY, 2,2,6,6-TE	13.13	10	NJ
28.	7704-34-9	SULFUR	13.80	13	NJ
29.	0-00-0	2,4-DIMETHYL-1,3-BIS(P-CHLOR	15.12	18	NJ
30.	0-00-0	(3H,6H)THIENO[3,4-C]ISOXAZOL	15.49	10	NJ

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4S-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945258

Sample wt/vol: 960.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/12/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/16/99 5 days

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/05/99 19 days

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.0083	JP
319-85-7	beta-BHC	0.016	JPB
319-86-8	delta-BHC	0.0012	JP
58-89-9	gamma-BHC (Lindane)	0.011	J
76-44-8	Heptachlor	0.052	U
309-00-2	Aldrin	0.052	U
1024-57-3	Heptachlor epoxide	0.052	U
959-98-8	Endosulfan I	0.052	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.52	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.052	U
5103-74-2	gamma-Chlordane	0.052	U
8001-35-2	Toxaphene	5.2	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.1	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
M4S-99

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix (soil/water): WATER Lab Sample ID: 945259

Level (low/med): LOW Date Received: 06/12/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	53.7	B		P
7440-36-0	Antimony	2.8	B		P
7440-38-2	Arsenic	4.0	B		P
7440-39-3	Barium	739			P
7440-41-7	Beryllium	0.32	B		P
7440-43-9	Cadmium	2.6	B		P
7440-70-2	Calcium	417000			P
7440-47-3	Chromium	3.7	B		P
7440-48-4	Cobalt	7.2	B		P
7440-50-8	Copper	1.1	U		P
7439-89-6	Iron	41300			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	47400			P
7439-96-5	Manganese	364			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	11.3	B		P
7440-09-7	Potassium	19500		E	P
7782-49-2	Selenium	3.1	U	N	P
7440-22-4	Silver	0.38	B		P
7440-23-5	Sodium	126000			P
7440-28-0	Thallium	4.1	U		P
7440-62-2	Vanadium	4.0	B		P
7440-66-6	Zinc	2.7	B	*	P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M4S-99

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945259

Sample wt/vol: 980 (g/mL) ML Lab File ID: GH045259B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99 2bda 7/8.

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	95	E
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	26	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	26	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	26	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M4S-99

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945259

Sample wt/vol: 980 (g/mL) ML Lab File ID: GH045259B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	26	U
100-02-7	4-Nitrophenol	26	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	26	U
534-52-1	4,6-Dinitro-2-methylphenol	26	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	26	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

M4S-99

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945259

Sample wt/vol: 980 (g/mL) ML Lab File ID: GH045259B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	4.55	5	J
2.		UNKNOWN	4.63	5	J
3.		UNKNOWN	5.19	60	J
4.		UNKNOWN	5.34	36	J
5.		UNKNOWN	5.66	12	J
6.		UNKNOWN	5.95	9	J
7.		UNKNOWN	7.03	500	J
8.		UNKNOWN	7.50	9	J
9.		UNKNOWN	7.60	6	J
10.		UNKNOWN	7.77	7	J
11.		UNKNOWN	7.99	12	J
12.		UNKNOWN	8.11	14	J
13.		UNKNOWN	8.20	40	J
14.		UNKNOWN	8.36	5	J
15.	85-44-9	PHTHALIC ANHYDRIDE	8.43	18	NJ
16.		UNKNOWN	8.48	30	J
17.	610-72-0	BENZOIC ACID, 2,5-DIMETHYL-	8.92	46	NJ
18.		UNKNOWN	9.09	55	J
19.		UNKNOWN	9.48	15	J
20.		UNKNOWN	9.56	22	J
21.	528-90-5	BENZOIC ACID, 2,4,5-TRIMETHY	9.92	25	NJ
22.		UNKNOWN	10.05	58	J
23.		UNKNOWN	10.26	14	J
24.		UNKNOWN	10.73	24	J
25.		UNKNOWN	11.78	24	J
26.		UNKNOWN	12.08	31	J
27.		UNKNOWN	15.12	45	J
28.		UNKNOWN	17.32	25	J
29.		UNKNOWN	17.74	32	J
30.		UNKNOWN	17.84	23	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M4S-99DL

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945259

Sample wt/vol: 980 (g/mL) ML Lab File ID: GDJ45259A70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99 28 days

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	20	U
111-44-4	bis(2-Chloroethyl)ether	91	D
95-57-8	2-Chlorophenol	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
95-50-1	1,2-Dichlorobenzene	20	U
95-48-7	2-Methylphenol	20	U
108-60-1	2,2'-oxybis(1-Chloropropane)	20	U
106-44-5	4-Methylphenol	20	U
621-64-7	N-Nitroso-di-n-propylamine	20	U
67-72-1	Hexachloroethane	20	U
98-95-3	Nitrobenzene	20	U
78-59-1	Isophorone	20	U
88-75-5	2-Nitrophenol	20	U
105-67-9	2,4-Dimethylphenol	20	U
111-91-1	bis(2-Chloroethoxy)methane	20	U
120-83-2	2,4-Dichlorophenol	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U
91-20-3	Naphthalene	20	U
106-47-8	4-Chloroaniline	20	U
87-68-3	Hexachlorobutadiene	20	U
59-50-7	4-Chloro-3-methylphenol	20	U
91-57-6	2-Methylnaphthalene	20	U
77-47-4	Hexachlorocyclopentadiene	20	U
88-06-2	2,4,6-Trichlorophenol	20	U
95-95-4	2,4,5-Trichlorophenol	51	U
91-58-7	2-Chloronaphthalene	20	U
88-74-4	2-Nitroaniline	51	U
131-11-3	Dimethylphthalate	20	U
208-96-8	Acenaphthylene	20	U
606-20-2	2,6-Dinitrotoluene	20	U
99-09-2	3-Nitroaniline	51	U
83-32-9	Acenaphthene	20	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M4S-99DL

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945259

Sample wt/vol: 980 (g/mL) ML Lab File ID: GDJ45259A70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	51	U
100-02-7	4-Nitrophenol	51	U
132-64-9	Dibenzofuran	20	U
121-14-2	2,4-Dinitrotoluene	20	U
84-66-2	Diethylphthalate	20	U
7005-72-3	4-Chlorophenyl-phenylether	20	U
86-73-7	Fluorene	20	U
100-01-6	4-Nitroaniline	51	U
534-52-1	4,6-Dinitro-2-methylphenol	51	U
86-30-6	N-nitrosodiphenylamine (1)	20	U
101-55-3	4-Bromophenyl-phenylether	20	U
118-74-1	Hexachlorobenzene	20	U
87-86-5	Pentachlorophenol	51	U
85-01-8	Phenanthrene	20	U
120-12-7	Anthracene	20	U
86-74-8	Carbazole	20	U
84-74-2	Di-n-butylphthalate	20	U
206-44-0	Fluoranthene	20	U
129-00-0	Pyrene	20	U
85-68-7	Butylbenzylphthalate	20	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	20	U
218-01-9	Chrysene	20	U
117-81-7	bis(2-Ethylhexyl)phthalate	20	U
117-84-0	Di-n-octylphthalate	20	U
205-99-2	Benzo(b)fluoranthene	20	U
207-08-9	Benzo(k)fluoranthene	20	U
50-32-8	Benzo(a)pyrene	20	U
193-39-5	Indeno(1,2,3-cd)pyrene	20	U
53-70-3	Dibenzo(a,h)anthracene	20	U
191-24-2	Benzo(g,h,i)perylene	20	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

M4S-99DL

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945259

Sample wt/vol: 980 (g/mL) ML Lab File ID: GDJ45259A70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	5.12	10	JD
2.		UNKNOWN	5.43	26	JD
3.		UNKNOWN	6.22	10	JD
4.		UNKNOWN	6.68	540	JD
5.		UNKNOWN	6.78	45	JD
6.		UNKNOWN	6.98	7	JD
7.		UNKNOWN	7.29	12	JD
8.		UNKNOWN	7.32	8	JD
9.		UNKNOWN	7.90	19	JD
10.		UNKNOWN	8.12	9	JD
11.	85-44-9	PHTHALIC ANHYDRIDE	8.17	12	NJD
12.		UNKNOWN	8.32	7	JD
13.		UNKNOWN	8.79	15	JD
14.		UNKNOWN	9.16	8	JD
15.		UNKNOWN	9.25	14	JD
16.		UNKNOWN	9.62	12	JD
17.		SULFUR	9.80	12	JD
18.		UNKNOWN	10.99	8	JD
19.		UNKNOWN	11.29	8	JD
20.		UNKNOWN	11.56	41	JD
21.		UNKNOWN	11.87	49	JD
22.		UNKNOWN	12.02	19	JD
23.		UNKNOWN	13.05	11	JD
24.		UNKNOWN	13.15	8	JD
25.	10544-50-0	SULFUR, MOL. (S8)	13.52	17	NJD
26.		UNKNOWN	14.40	13	JD
27.		UNKNOWN	14.89	50	JD
28.		UNKNOWN	15.23	14	JD
29.		UNKNOWN	15.30	13	JD
30.		UNKNOWN	16.73	8	JD

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M4S-99

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945259

Sample wt/vol: 1050 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/12/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/16/99 5 days

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/05/99 19 days

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.0090	JP
319-85-7	beta-BHC	0.012	JPB
319-86-8	delta-BHC	0.0027	JP
58-89-9	gamma-BHC (Lindane)	0.0084	JP
76-44-8	Heptachlor	0.048	U
309-00-2	Aldrin	0.048	U
1024-57-3	Heptachlor epoxide	0.048	U
959-98-8	Endosulfan I	0.048	U
60-57-1	Dieldrin	0.095	U
72-55-9	4,4'-DDE	0.095	U
72-20-8	Endrin	0.095	U
33213-65-9	Endosulfan II	0.095	U
72-54-8	4,4'-DDD	0.0084	JP
1031-07-8	Endosulfan sulfate	0.095	U
50-29-3	4,4'-DDT	0.095	U
72-43-5	Methoxychlor	0.48	U
53494-70-5	Endrin ketone	0.095	U
7421-93-4	Endrin aldehyde	0.095	U
5103-71-9	alpha-Chlordane	0.0040	JP
5103-74-2	gamma-Chlordane	0.048	U
8001-35-2	Toxaphene	4.8	U
12674-11-2	Aroclor-1016	0.95	U
11104-28-2	Aroclor-1221	1.9	U
11141-16-5	Aroclor-1232	0.95	U
53469-21-9	Aroclor-1242	0.95	U
12672-29-6	Aroclor-1248	0.95	U
11097-69-1	Aroclor-1254	0.95	U
11096-82-5	Aroclor-1260	0.95	U

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
M4S-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix (soil/water): WATER Lab Sample ID: 945258

Level (low/med): LOW Date Received: 06/12/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	83.9	B		P
7440-36-0	Antimony	3.2	B		P
7440-38-2	Arsenic	2.7	B		P
7440-39-3	Barium	589			P
7440-41-7	Beryllium	0.44	B		P
7440-43-9	Cadmium	1.8	B		P
7440-70-2	Calcium	350000			P
7440-47-3	Chromium	6.2	B		P
7440-48-4	Cobalt	6.0	B		P
7440-50-8	Copper	1.1	U		P
7439-89-6	Iron	33500			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	42900			P
7439-96-5	Manganese	399			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	11.5	B		P
7440-09-7	Potassium	18800		E	P
7782-49-2	Selenium	3.1	U	N	P
7440-22-4	Silver	0.30	U		P
7440-23-5	Sodium	99400			P
7440-28-0	Thallium	4.1	U		P
7440-62-2	Vanadium	2.9	B		P
7440-66-6	Zinc	2.5	B	*	P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW06-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945687

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045687A57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/29/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	78	
75-09-2	Methylene Chloride	140	
67-64-1	Acetone	80	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	2	J
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	180	
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	1	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	1	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW06-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945687

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045687a57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/29/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	60-29-7	ETHER	7.56	17	NJ
2.		UNKNOWN	10.73	6	J
3.	109-99-9	FURAN, TETRAHYDRO-	11.99	8	NJ
4.	873-94-9	CYCLOHEXANONE, 3,3,5-TRIMETH	21.74	23	NJ
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW06-99

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945686

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CR045686A57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/29/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 2.5

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	25	U
74-83-9	Bromomethane	25	U
75-01-4	Vinyl Chloride	25	U
75-00-3	Chloroethane	100	
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	28	
75-15-0	Carbon Disulfide	25	U
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
67-66-3	Chloroform	25	U
107-06-2	1,2-Dichloroethane	25	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	25	U
56-23-5	Carbon Tetrachloride	25	U
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-Dichloropropane	25	U
10061-01-5	cis-1,3-Dichloropropene	25	U
79-01-6	Trichloroethene	25	U
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-Trichloroethane	25	U
71-43-2	Benzene	240	
10061-02-6	trans-1,3-Dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-Methyl-2-Pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-Tetrachloroethane	25	U
108-88-3	Toluene	25	U
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	25	U
100-42-5	Styrene	25	U
1330-20-7	Xylene (Total)	25	U
540-59-0	1,2-Dichloroethene (total)	25	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW06-99

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945686

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cr045686a57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/29/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 2.5

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	60-29-7	ETHER	7.55	22	NJ
2.	109-99-9	FURAN, TETRAHYDRO-	11.97	13	NJ
3.	873-94-9	CYCLOHEXANONE, 3,3,5-TRIMETH	21.70	26	NJ
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW06-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945687

Sample wt/vol: 960 (g/mL) ML Lab File ID: GH045687A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99 ✓

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	13	
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	3	J
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	26	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	26	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	26	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW06-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945687

Sample wt/vol: 960 (g/mL) ML Lab File ID: GH045687A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	26	U
100-02-7	4-Nitrophenol	26	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	26	U
534-52-1	4,6-Dinitro-2-methylphenol	26	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	26	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW06-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945687

Sample wt/vol: 960 (g/mL) ML Lab File ID: GH045687A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 27

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	4.97	2	J
2.		UNKNOWN	5.17	20	J
3.		UNKNOWN	5.57	22	J
4.		UNKNOWN	5.99	3	J
5.		UNKNOWN	6.36	3	J
6.		SUBSTITUTED PHENOL	7.02	4	J
7.		UNKNOWN	7.69	3	J
8.		UNKNOWN	7.81	12	J
9.		UNKNOWN	8.06	4	J
10.		UNKNOWN	8.74	2	J
11.		UNKNOWN	9.06	420	J
12.		UNKNOWN	9.20	2	J
13.		UNKNOWN	9.83	3	J
14.		UNKNOWN	10.97	2	J
15.		UNKNOWN	11.16	8	J
16.		UNKNOWN	11.27	3	J
17.		UNKNOWN	11.67	8	J
18.		UNKNOWN	11.93	10	J
19.		UNKNOWN	11.99	3	J
20.		UNKNOWN	12.27	12	J
21.	76-73-3	SECOBARBITAL	12.44	29	NJ
22.	50-06-6	PHENOBARBITAL	13.77	24	NJ
23.		UNKNOWN	13.83	6	J
24.		UNKNOWN	15.19	3	J
25.		UNKNOWN	15.82	8	J
26.		UNKNOWN	16.30	3	J
27.		UNKNOWN	16.42	5	J
28.					
29.					
30.					

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW06-99

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945686

Sample wt/vol: 980 (g/mL) ML Lab File ID: GH045686A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	14	
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	26	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	26	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	26	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW06-99

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945686

Sample wt/vol: 980 (g/mL) ML Lab File ID: GH045686A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	26	U
100-02-7	4-Nitrophenol	26	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	26	U
534-52-1	4,6-Dinitro-2-methylphenol	26	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	26	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW06-99

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945686

Sample wt/vol: 980 (g/mL) ML Lab File ID: GH045686A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 28

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	5.16	20	J
2.		UNKNOWN	5.59	30	J
3.		UNKNOWN	6.08	4	J
4.		UNKNOWN	6.37	5	J
5.		SUBSTITUTED PHENOL	7.02	4	J
6.		UNKNOWN	7.83	7	J
7.		UNKNOWN	8.06	4	J
8.		UNKNOWN	8.79	6	J
9.		UNKNOWN	9.07	960	J
10.		UNKNOWN	9.21	7	J
11.		UNKNOWN	9.44	3	J
12.		UNKNOWN	9.65	38	J
13.		UNKNOWN	9.85	7	J
14.		UNKNOWN	9.95	4	J
15.		UNKNOWN	10.72	3	J
16.		UNKNOWN	11.18	11	J
17.		UNKNOWN	11.27	4	J
18.		UNKNOWN	11.44	2	J
19.		UNKNOWN	11.69	9	J
20.		UNKNOWN	11.93	6	J
21.		UNKNOWN	12.26	6	J
22.		UNKNOWN	12.46	43	J
23.		UNKNOWN	13.21	3	J
24.		UNKNOWN	13.77	23	J
25.		UNKNOWN	14.51	2	J
26.		UNKNOWN	15.21	3	J
27.		UNKNOWN	15.82	8	J
28.		UNKNOWN	16.30	3	J
29.					
30.					

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW06-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945687

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/16/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/17/99 1 day

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/05/99 18 days

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.0095	JP
319-85-7	beta-BHC	0.36	P
319-86-8	delta-BHC	0.0040	JP
58-89-9	gamma-BHC (Lindane)	0.0066	JP
76-44-8	Heptachlor	0.0043	JP
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.0069	JP
72-55-9	4,4'-DDE	0.0012	JP
72-20-8	Endrin	0.021	JP
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.0081	J
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.0068	JP
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW06-99

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945686

Sample wt/vol: 940.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/16/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 06/17/99 1 days

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/05/99 18 days

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.012	J
319-85-7	beta-BHC	0.064	P
319-86-8	delta-BHC	0.0012	JP
58-89-9	gamma-BHC (Lindane)	0.014	JP
76-44-8	Heptachlor	0.015	JP
309-00-2	Aldrin	0.0072	JP
1024-57-3	Heptachlor epoxide	0.053	U
959-98-8	Endosulfan I	0.053	U
60-57-1	Dieldrin	0.11	U
72-55-9	4,4'-DDE	0.11	U
72-20-8	Endrin	0.11	U
33213-65-9	Endosulfan II	0.11	U
72-54-8	4,4'-DDD	0.11	U
1031-07-8	Endosulfan sulfate	0.11	U
50-29-3	4,4'-DDT	0.11	U
72-43-5	Methoxychlor	0.53	U
53494-70-5	Endrin ketone	0.11	U
7421-93-4	Endrin aldehyde	0.11	U
5103-71-9	alpha-Chlordane	0.0085	J
5103-74-2	gamma-Chlordane	0.0019	JP
8001-35-2	Toxaphene	5.3	U
12674-11-2	Aroclor-1016	1.1	U
11104-28-2	Aroclor-1221	2.1	U
11141-16-5	Aroclor-1232	1.1	U
53469-21-9	Aroclor-1242	1.1	U
12672-29-6	Aroclor-1248	1.1	U
11097-69-1	Aroclor-1254	1.1	U
11096-82-5	Aroclor-1260	1.1	U

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
MW06-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix (soil/water): WATER Lab Sample ID: 945687

Level (low/med): LOW Date Received: 06/16/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	41.3	B		P
7440-36-0	Antimony	3.2	B		P
7440-38-2	Arsenic	17.9			P
7440-39-3	Barium	269			P
7440-41-7	Beryllium	0.25	B		P
7440-43-9	Cadmium	2.1	B		P
7440-70-2	Calcium	260000			P
7440-47-3	Chromium	8.1	B		P
7440-48-4	Cobalt	2.4	B		P
7440-50-8	Copper	3.7	B		P
7439-89-6	Iron	7780			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	45700			P
7439-96-5	Manganese	1050			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	20.2	B		P
7440-09-7	Potassium	16500		E	P
7782-49-2	Selenium	3.1	U	N	P
7440-22-4	Silver	0.30	U		P
7440-23-5	Sodium	233000			P
7440-28-0	Thallium	4.1	U		P
7440-62-2	Vanadium	0.68	B		P
7440-66-6	Zinc	2.3	B	*	P
	Cyanide	12.8			CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW06-99

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix (soil/water): WATER Lab Sample ID: 945686

Level (low/med): LOW Date Received: 06/16/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	85.3	B		P
7440-36-0	Antimony	2.5	B		P
7440-38-2	Arsenic	19.2			P
7440-39-3	Barium	264			P
7440-41-7	Beryllium	0.38	B		P
7440-43-9	Cadmium	2.2	B		P
7440-70-2	Calcium	254000			P
7440-47-3	Chromium	13.1			P
7440-48-4	Cobalt	2.0	B		P
7440-50-8	Copper	3.8	B		P
7439-89-6	Iron	7700			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	44800			P
7439-96-5	Manganese	1010			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	21.6	B		P
7440-09-7	Potassium	16400		E	P
7782-49-2	Selenium	3.1	U	N	P
7440-22-4	Silver	0.40	B		P
7440-23-5	Sodium	226000			P
7440-28-0	Thallium	4.1	U		P
7440-62-2	Vanadium	0.60	U		P
7440-66-6	Zinc	4.4	B	*	P
	Cyanide	5.7	B		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW11-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945496

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045496A57

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: not dec. _____ Date Analyzed: 06/27/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
71-55-6	1,1,1-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
127-18-4	Tetrachloroethene	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW11-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945496

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045496a57

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: not dec. _____ Date Analyzed: 06/27/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW11-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix (soil/water): WATER Lab Sample ID: 945496

Level (low/med): LOW Date Received: 06/15/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	4.2	B		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.7	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW12-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944731

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CR044731B57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
71-55-6	1,1,1-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
127-18-4	Tetrachloroethene	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
156-59-2	cis-1,2-Dichloroethene	10	U

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACSGWMW12-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix (soil/water): WATER Lab Sample ID: 944731

Level (low/med): LOW Date Received: 06/11/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	1.4	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.6	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW13-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945706

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045706B57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/30/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	J
67-64-1	Acetone	4	JB
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW13-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945706

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045706b57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/30/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	60-29-7	ETHER	7.56	30	NJ
2.					
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW13-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945706

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045706A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/22/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/14/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW13-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945706

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045706A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/22/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/14/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW13-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945706

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045706A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/22/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/14/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		TRICHLOROPROPENE (BC)	5.44	2	JB
2.		UNKNOWN	12.00	3	J
3.		UNKNOWN	12.42	2	J
4.		UNKNOWN	13.80	2	J
5.		UNKNOWN	14.99	2	J
6.		UNKNOWN CARBOXYLIC ACID	16.55	3	J
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1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW13-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945706

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/16/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/18/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 06/25/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.0055	JP
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.0042	JP
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW13-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix (soil/water): WATER Lab Sample ID: 945706

Level (low/med): LOW Date Received: 06/16/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	50.2	B		P
7440-36-0	Antimony	1.8	U		P
7440-38-2	Arsenic	2.2	B		P
7440-39-3	Barium	83.2	B		P
7440-41-7	Beryllium	0.19	B		P
7440-43-9	Cadmium	1.2	B		P
7440-70-2	Calcium	165000			P
7440-47-3	Chromium	0.90	U		P
7440-48-4	Cobalt	0.60	U		P
7440-50-8	Copper	1.1	U		P
7439-89-6	Iron	7620			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	48900			P
7439-96-5	Manganese	813			P
7439-97-6	Mercury	0.02	U		CV
7440-02-0	Nickel	1.4	B		P
7440-09-7	Potassium	1720	B	E	P
7782-49-2	Selenium	3.1	U		P
7440-22-4	Silver	0.30	U		P
7440-23-5	Sodium	26100			P
7440-28-0	Thallium	4.1	U		P
7440-62-2	Vanadium	0.89	B		P
7440-66-6	Zinc	2.0	B		P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW13-99

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945669

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045669B57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/30/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	2	JB
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW13-99

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945669

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045669b57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/30/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	60-29-7	ETHER	7.56	31	NJ
2.					
3.					
4.					
5.					
6.					
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW13-99

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945669

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045669A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/22/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/14/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW13-99

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945669

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045669A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/22/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/14/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW13-99

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945669

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045669A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/22/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/14/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		TRICHLOROPROPENE (BC)	5.44	2	JB
2.		UNKNOWN	12.00	3	J
3.		UNKNOWN	12.40	2	J
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW13-99

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945669

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/16/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/18/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 06/25/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.0067	JP
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.0043	J
76-44-8	Heptachlor	0.0031	JP
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.0056	JP
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.0060	J
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.0076	J
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
MW13-99

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix (soil/water): WATER Lab Sample ID: 945669

Level (low/med): LOW Date Received: 06/16/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	51.1	B		P
7440-36-0	Antimony	2.1	B		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	84.1	B		P
7440-41-7	Beryllium	0.23	B		P
7440-43-9	Cadmium	1.3	B		P
7440-70-2	Calcium	164000			P
7440-47-3	Chromium	0.90	U		P
7440-48-4	Cobalt	0.60	U		P
7440-50-8	Copper	1.1	U		P
7439-89-6	Iron	7740			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	48800			P
7439-96-5	Manganese	809			P
7439-97-6	Mercury	0.02	B		CV
7440-02-0	Nickel	1.3	B		P
7440-09-7	Potassium	1650	B	E	P
7782-49-2	Selenium	3.1	U		P
7440-22-4	Silver	0.30	U		P
7440-23-5	Sodium	26200			P
7440-28-0	Thallium	4.1	U		P
7440-62-2	Vanadium	1.1	B		P
7440-66-6	Zinc	1.1	U		P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW14-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945684

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045684A57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/29/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	10	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW14-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945684

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045684a57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/29/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW14-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945684

Sample wt/vol: 980 (g/mL) ML Lab File ID: GH045684A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	26	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	26	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	26	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW14-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945684

Sample wt/vol: 980 (g/mL) ML Lab File ID: GH045684A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	26	U
100-02-7	4-Nitrophenol	26	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	26	U
534-52-1	4,6-Dinitro-2-methylphenol	26	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	26	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW14-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945684

Sample wt/vol: 980 (g/mL) ML Lab File ID: GH045684A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW14-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945684

Sample wt/vol: 1020 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/16/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/17/99 (1 day

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/05/99 18 days

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.049	U
319-85-7	beta-BHC	0.049	U
319-86-8	delta-BHC	0.049	U
58-89-9	gamma-BHC (Lindane)	0.049	U
76-44-8	Heptachlor	0.0022	JP
309-00-2	Aldrin	0.049	U
1024-57-3	Heptachlor epoxide	0.049	U
959-98-8	Endosulfan I	0.049	U
60-57-1	Dieldrin	0.098	U
72-55-9	4,4'-DDE	0.098	U
72-20-8	Endrin	0.098	U
33213-65-9	Endosulfan II	0.098	U
72-54-8	4,4'-DDD	0.098	U
1031-07-8	Endosulfan sulfate	0.098	U
50-29-3	4,4'-DDT	0.098	U
72-43-5	Methoxychlor	0.49	U
53494-70-5	Endrin ketone	0.098	U
7421-93-4	Endrin aldehyde	0.098	U
5103-71-9	alpha-Chlordane	0.049	U
5103-74-2	gamma-Chlordane	0.049	U
8001-35-2	Toxaphene	4.9	U
12674-11-2	Aroclor-1016	0.98	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	0.98	U
53469-21-9	Aroclor-1242	0.98	U
12672-29-6	Aroclor-1248	0.98	U
11097-69-1	Aroclor-1254	0.98	U
11096-82-5	Aroclor-1260	0.98	U

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW14-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix (soil/water): WATER Lab Sample ID: 945684

Level (low/med): LOW Date Received: 06/16/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8300			P
7440-36-0	Antimony	2.9	B		P
7440-38-2	Arsenic	67.2			P
7440-39-3	Barium	119	B		P
7440-41-7	Beryllium	0.93	B		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	54400			P
7440-47-3	Chromium	185			P
7440-48-4	Cobalt	24.7	B		P
7440-50-8	Copper	33.8			P
7439-89-6	Iron	98700			P
7439-92-1	Lead	5.2			P
7439-95-4	Magnesium	12700			P
7439-96-5	Manganese	787			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	128			P
7440-09-7	Potassium	5050		E	P
7782-49-2	Selenium	6.6		N	P
7440-22-4	Silver	0.30	U		P
7440-23-5	Sodium	16400			P
7440-28-0	Thallium	10.9			P
7440-62-2	Vanadium	98.2			P
7440-66-6	Zinc	44.5		*	P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW15-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945261

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CR045261A57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	J
67-64-1	Acetone	4	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	3	J
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW15-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945261

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cr045261a57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW15-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945261

Sample wt/vol: 950 (g/mL) ML Lab File ID: GH045261B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

28 days

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	26	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	26	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	26	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW15-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945261

Sample wt/vol: 950 (g/mL) ML Lab File ID: GH045261B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	26	U
100-02-7	4-Nitrophenol	26	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	26	U
534-52-1	4,6-Dinitro-2-methylphenol	26	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	26	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW15-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945261

Sample wt/vol: 950 (g/mL) ML Lab File ID: GH045261B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 15

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	6.02	3	J
2.		UNKNOWN	6.31	4	J
3.		UNKNOWN	7.27	3	J
4.		UNKNOWN	8.08	3	J
5.		UNKNOWN	9.15	27	J
6.		UNKNOWN	9.45	3	J
7.	98-73-7	BENZOIC ACID, P-TERT-BUTYL-	9.86	3	NJ
8.		UNKNOWN	11.07	3	J
9.		UNKNOWN	12.07	4	J
10.		UNKNOWN	12.44	3	J
11.		UNKNOWN	13.12	2	J
12.		UNKNOWN	13.41	8	J
13.		UNKNOWN	14.96	5	J
14.		UNKNOWN	15.08	2	J
15.		UNKNOWN	17.43	5	J
16.					
17.					
18.					
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1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW15-09

Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945261

Sample wt/vol: 980.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/12/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/16/99 5 days

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/05/99 19 days

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.051	U
319-85-7	beta-BHC	0.0081	JPB
319-86-8	delta-BHC	0.0016	JP
58-89-9	gamma-BHC (Lindane)	0.0033	JP
76-44-8	Heptachlor	0.0074	JP
309-00-2	Aldrin	0.0021	JP
1024-57-3	Heptachlor epoxide	0.051	U
959-98-8	Endosulfan I	0.051	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.51	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.051	U
5103-74-2	gamma-Chlordane	0.051	U
8001-35-2	Toxaphene	5.1	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW15-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix (soil/water): WATER Lab Sample ID: 945261

Level (low/med): LOW Date Received: 06/12/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	237			P
7440-36-0	Antimony	1.8	U		P
7440-38-2	Arsenic	49.7			P
7440-39-3	Barium	1210			P
7440-41-7	Beryllium	0.47	B		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	52100			P
7440-47-3	Chromium	4.1	B		P
7440-48-4	Cobalt	5.5	B		P
7440-50-8	Copper	3.0	B		P
7439-89-6	Iron	4180			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	61700			P
7439-96-5	Manganese	171			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	19.8	B		P
7440-09-7	Potassium	124000		E	P
7782-49-2	Selenium	3.1	U	N	P
7440-22-4	Silver	0.30	U		P
7440-23-5	Sodium	495000			P
7440-28-0	Thallium	4.1	U		P
7440-62-2	Vanadium	1.9	B		P
7440-66-6	Zinc	2.1	B	*	P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW18-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944468

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044468B57

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	J
67-64-1	Acetone	5	JB
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW18-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944468

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn044468b57

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
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EPA SAMPLE NO.
MW18-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944468

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044468A64

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/11/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

EPA SAMPLE NO.
MW18-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944468

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044468A64

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/11/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW18-09

Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944468

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044468A64

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/11/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 11

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	6.43	2	J
2.		UNKNOWN	6.52	7	J
3.		TRICHLOROPROPENE	6.62	8	J
4.		UNKNOWN SILOXANE	6.85	24	J
5.		UNKNOWN SILOXANE	8.50	4	J
6.		UNKNOWN	9.06	2	J
7.		UNKNOWN	9.75	6	J
8.		UNKNOWN	10.25	22	J
9.		UNKNOWN	18.32	3	J
10.		UNKNOWN	30.63	250	J
11.		UNKNOWN	30.70	69	J
12.					
13.					
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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW18-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944468

Sample wt/vol: 1060 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/10/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/12/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.047	U
319-85-7	beta-BHC	0.047	U
319-86-8	delta-BHC	0.047	U
58-89-9	gamma-BHC (Lindane)	0.047	U
76-44-8	Heptachlor	0.047	U
309-00-2	Aldrin	0.047	U
1024-57-3	Heptachlor epoxide	0.047	U
959-98-8	Endosulfan I	0.047	U
60-57-1	Dieldrin	0.094	U
72-55-9	4,4'-DDE	0.094	U
72-20-8	Endrin	0.094	U
33213-65-9	Endosulfan II	0.094	U
72-54-8	4,4'-DDD	0.094	U
1031-07-8	Endosulfan sulfate	0.094	U
50-29-3	4,4'-DDT	0.094	U
72-43-5	Methoxychlor	0.010	JP
53494-70-5	Endrin ketone	0.094	U
7421-93-4	Endrin aldehyde	0.094	U
5103-71-9	alpha-Chlordane	0.047	U
5103-74-2	gamma-Chlordane	0.047	U
8001-35-2	Toxaphene	4.7	U
12674-11-2	Aroclor-1016	0.94	U
11104-28-2	Aroclor-1221	1.9	U
11141-16-5	Aroclor-1232	0.94	U
53469-21-9	Aroclor-1242	0.94	U
12672-29-6	Aroclor-1248	0.94	U
11097-69-1	Aroclor-1254	0.94	U
11096-82-5	Aroclor-1260	0.94	U

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW18-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix (soil/water): WATER Lab Sample ID: 944468

Level (low/med): LOW Date Received: 06/10/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13.3	B		P
7440-36-0	Antimony	3.3	B		P
7440-38-2	Arsenic	1.4	U		P
7440-39-3	Barium	28.3	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.94	B		P
7440-70-2	Calcium	61400			P
7440-47-3	Chromium	3.7	B		P
7440-48-4	Cobalt	2.5	B		P
7440-50-8	Copper	3.2	B		P
7439-89-6	Iron	53.5	B		P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	20700			P
7439-96-5	Manganese	61.0			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	0.50	U		P
7440-09-7	Potassium	1930	B	E	P
7782-49-2	Selenium	1.6	U		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	38800			P
7440-28-0	Thallium	2.1	U		P
7440-62-2	Vanadium	1.1	B		P
7440-66-6	Zinc	0.40	U		P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Duplicate (MW18-09D)

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW19-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944711

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044711B57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	14	
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	19	B
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	2	JB
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	7	J
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	3	JB
591-78-6	2-Hexanone	3	JB
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWMW19-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944711

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn044711b57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	60-29-7	ETHER	7.57	7	NJ
2.		UNKNOWN	20.15	5	J
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
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28.					
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30.					

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW19-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944711

Sample wt/vol: 950 (g/mL) ML Lab File ID: GH044711A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/21/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0 3 days.

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	23	
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	2	J
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	6	J
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	26	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	26	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	26	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW19-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944711

Sample wt/vol: 950 (g/mL) ML Lab File ID: GH044711A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/21/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	26	U
100-02-7	4-Nitrophenol	26	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	26	U
534-52-1	4,6-Dinitro-2-methylphenol	26	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	26	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	16	
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACSGWMW19-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944711

Sample wt/vol: 950 (g/mL) ML Lab File ID: GH044711A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/21/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 29

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	6.91	20	J
2.		UNKNOWN	7.15	20	J
3.		UNKNOWN	7.42	39	J
4.		UNKNOWN	8.01	46	J
5.		UNKNOWN	8.40	9	J
6.		UNKNOWN	8.52	5	J
7.		UNKNOWN	8.74	5	J
8.		UNKNOWN	9.09	72	J
9.		UNKNOWN	9.79	9	J
10.		UNKNOWN	9.85	8	J
11.		UNKNOWN	10.12	8	J
12.		UNKNOWN	10.31	39	J
13.		UNKNOWN	10.44	22	J
14.		UNKNOWN	10.53	40	J
15.		UNKNOWN	10.61	74	J
16.		UNKNOWN	11.24	15	J
17.		UNKNOWN	11.53	9	J
18.		UNKNOWN	11.59	5	J
19.		UNKNOWN	12.18	150	J
20.		UNKNOWN	12.40	4	J
21.		UNKNOWN	12.52	10	J
22.		UNKNOWN	12.62	8	J
23.		UNKNOWN	13.32	15	J
24.		UNKNOWN	13.99	6	J
25.		UNKNOWN	14.16	9	J
26.		UNKNOWN	15.01	20	J
27.	50-06-6	PHENOBARBITAL	15.67	80	NJ
28.		UNKNOWN	16.26	9	J
29.		UNKNOWN SILOXANE	19.35	20	J
30.					

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW19-09RE

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944711

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GR044711A66

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 07/07/99 29 days.

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/09/99 ~~28~~ days

Injection Volume: 2.0(uL) Dilution Factor: 1.0 2 days.

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	23	
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	4	J
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW19-09RE

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944711

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GR044711A66

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:07/07/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/09/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACSGWMW19-09RE

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944711

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GR044711A66

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:07/07/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/09/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 29

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	6.19	11	J
2.		UNKNOWN (BC)	6.22	13	JB
3.		UNKNOWN	6.36	9	J
4.		UNKNOWN	6.54	7	J
5.		UNKNOWN	7.12	43	J
6.		UNKNOWN (BC)	7.38	26	JB
7.		UNKNOWN	7.87	10	J
8.		UNKNOWN	8.50	10	J
9.		UNKNOWN	9.41	20	J
10.		UNKNOWN	9.66	6	J
11.	485-47-2	NINHYDRIN	9.77	6	NJ
12.		UNKNOWN	10.20	11	J
13.		UNKNOWN	10.40	30	J
14.		UNKNOWN ALCOHOL	10.71	620	J
15.		UNKNOWN	10.78	18	J
16.		UNKNOWN	11.59	74	J
17.		UNKNOWN	12.27	36	J
18.		UNKNOWN	12.69	6	J
19.		UNKNOWN	12.90	11	J
20.		UNKNOWN	13.41	8	J
21.		UNKNOWN	13.62	14	J
22.		UNKNOWN	14.46	8	J
23.		UNKNOWN	14.64	18	J
24.		UNKNOWN	15.06	4	J
25.		UNKNOWN	15.67	64	J
26.		UNKNOWN	15.81	6	J
27.		UNKNOWN	16.74	14	J
28.		UNKNOWN	17.90	10	J
29.		UNKNOWN	18.48	11	J
30.					

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW19-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944711

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/11/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 06/15/99 5days

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/05/99 20days

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.0038	JP
319-85-7	beta-BHC	0.022	JP
319-86-8	delta-BHC	0.0019	JP
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.0044	JP
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.0019	JP
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.0053	JP
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACSGWMW19-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix (soil/water): WATER Lab Sample ID: 944711

Level (low/med): LOW Date Received: 06/11/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	64.6	B		P
7440-36-0	Antimony	1.8	U		P
7440-38-2	Arsenic	7.7	B		P
7440-39-3	Barium	764			P
7440-41-7	Beryllium	0.25	B		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	84800			P
7440-47-3	Chromium	3.6	B		P
7440-48-4	Cobalt	1.4	B		P
7440-50-8	Copper	2.3	B		P
7439-89-6	Iron	2490			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	56200			P
7439-96-5	Manganese	206			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	16.2	B		P
7440-09-7	Potassium	92400		E	P
7782-49-2	Selenium	3.1	U	N	P
7440-22-4	Silver	0.30	U		P
7440-23-5	Sodium	938000			P
7440-28-0	Thallium	4.1	U		P
7440-62-2	Vanadium	0.73	B		P
7440-66-6	Zinc	1.1	U	*	P
	Cyanide	5.1	B		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW37-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945492

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045492A57

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: not dec. _____ Date Analyzed: 06/27/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	J
67-64-1	Acetone	5	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW37-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945492

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045492a57

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: not dec. _____ Date Analyzed: 06/27/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW37-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945492

Sample wt/vol: 980 (g/mL) ML Lab File ID: GH045492A66

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	26	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	26	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	26	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW37-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945492

Sample wt/vol: 980 (g/mL) ML Lab File ID: GH045492A66

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	26	U
100-02-7	4-Nitrophenol	26	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	26	U
534-52-1	4,6-Dinitro-2-methylphenol	26	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	26	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW37-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945492

Sample wt/vol: 980 (g/mL) ML Lab File ID: GH045492A66

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW37-09

Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945492

Sample wt/vol: 1050 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/15/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/17/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.048	U
319-85-7	beta-BHC	0.019	J
319-86-8	delta-BHC	0.048	U
58-89-9	gamma-BHC (Lindane)	0.048	U
76-44-8	Heptachlor	0.048	U
309-00-2	Aldrin	0.048	U
1024-57-3	Heptachlor epoxide	0.048	U
959-98-8	Endosulfan I	0.048	U
60-57-1	Dieldrin	0.095	U
72-55-9	4,4'-DDE	0.095	U
72-20-8	Endrin	0.095	U
33213-65-9	Endosulfan II	0.095	U
72-54-8	4,4'-DDD	0.095	U
1031-07-8	Endosulfan sulfate	0.095	U
50-29-3	4,4'-DDT	0.095	U
72-43-5	Methoxychlor	0.48	U
53494-70-5	Endrin ketone	0.095	U
7421-93-4	Endrin aldehyde	0.095	U
5103-71-9	alpha-Chlordane	0.048	U
5103-74-2	gamma-Chlordane	0.048	U
8001-35-2	Toxaphene	4.8	U
12674-11-2	Aroclor-1016	0.95	U
11104-28-2	Aroclor-1221	1.9	U
11141-16-5	Aroclor-1232	0.95	U
53469-21-9	Aroclor-1242	0.95	U
12672-29-6	Aroclor-1248	0.95	U
11097-69-1	Aroclor-1254	0.95	U
11096-82-5	Aroclor-1260	0.95	U

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW37-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix (soil/water): WATER Lab Sample ID: 945492

Level (low/med): LOW Date Received: 06/15/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	388			P
7440-36-0	Antimony	1.8	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	24.2	B		P
7440-41-7	Beryllium	0.37	B		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	74400			P
7440-47-3	Chromium	3.7	B		P
7440-48-4	Cobalt	0.99	B		P
7440-50-8	Copper	7.1	B		P
7439-89-6	Iron	4870			P
7439-92-1	Lead	1.3	B		P
7439-95-4	Magnesium	23100			P
7439-96-5	Manganese	330			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	8.2	B		P
7440-09-7	Potassium	1120	B		P
7782-49-2	Selenium	3.1	U		P
7440-22-4	Silver	0.30	U		P
7440-23-5	Sodium	15200			P
7440-28-0	Thallium	4.1	U		P
7440-62-2	Vanadium	1.7	B		P
7440-66-6	Zinc	2.7	B		P
	Cyanide	6.8	B		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW38-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944496

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044496B57

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	7	J
67-64-1	Acetone	5	JB
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW38-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944496

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn044496b57

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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EPA SAMPLE NO.

MW38-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944496

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044496A64

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/11/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW38-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944496

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044496A64

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/11/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW38-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944496

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044496A64

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/11/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 18

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	6.53	7	J
2.		TRICHLOROPROPENE	6.62	10	J
3.		UNKNOWN SILOXANE	6.86	200	J
4.		UNKNOWN SILOXANE	6.94	3	J
5.		UNKNOWN SILOXANE	8.50	42	J
6.		UNKNOWN	9.18	3	J
7.		UNKNOWN	9.40	6	J
8.		UNKNOWN	9.53	3	J
9.		UNKNOWN	9.76	22	J
10.		UNKNOWN SILOXANE	10.14	32	J
11.		UNKNOWN	10.26	57	J
12.	85-44-9	PHTHALIC ANHYDRIDE	10.51	3	NJ
13.		UNKNOWN	10.56	2	J
14.		UNKNOWN SILOXANE	11.22	25	J
15.		UNKNOWN SILOXANE	12.33	3	J
16.		UNKNOWN ACID ESTER	15.00	4	J
17.		UNKNOWN ACID ESTER	16.24	4	J
18.		UNKNOWN	19.39	2	J
19.					
20.					
21.					
22.					
23.					
24.					
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27.					
28.					
29.					
30.					

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW38-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944496

Sample wt/vol: 1030 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/10/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/12/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.048	U
319-85-7	beta-BHC	0.048	U
319-86-8	delta-BHC	0.0056	JP
58-89-9	gamma-BHC (Lindane)	0.048	U
76-44-8	Heptachlor	0.0083	JP
309-00-2	Aldrin	0.048	U
1024-57-3	Heptachlor epoxide	0.048	U
959-98-8	Endosulfan I	0.048	U
60-57-1	Dieldrin	0.0074	JP
72-55-9	4,4'-DDE	0.0086	JP
72-20-8	Endrin	0.0068	JP
33213-65-9	Endosulfan II	0.097	U
72-54-8	4,4'-DDD	0.097	U
1031-07-8	Endosulfan sulfate	0.027	JP
50-29-3	4,4'-DDT	0.068	JP
72-43-5	Methoxychlor	0.11	J
53494-70-5	Endrin ketone	0.0064	JP
7421-93-4	Endrin aldehyde	0.097	U
5103-71-9	alpha-Chlordane	0.048	U
5103-74-2	gamma-Chlordane	0.0083	J
8001-35-2	Toxaphene	4.8	U
12674-11-2	Aroclor-1016	0.97	U
11104-28-2	Aroclor-1221	1.9	U
11141-16-5	Aroclor-1232	0.97	U
53469-21-9	Aroclor-1242	0.97	U
12672-29-6	Aroclor-1248	0.97	U
11097-69-1	Aroclor-1254	0.97	U
11096-82-5	Aroclor-1260	0.97	U

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW38-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix (soil/water): WATER Lab Sample ID: 944496

Level (low/med): LOW Date Received: 06/10/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	68.4	B		P
7440-36-0	Antimony	1.3	B		P
7440-38-2	Arsenic	1.4	U		P
7440-39-3	Barium	33.0	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.45	B		P
7440-70-2	Calcium	58500			P
7440-47-3	Chromium	2.3	B		P
7440-48-4	Cobalt	5.4	B		P
7440-50-8	Copper	13.4	B		P
7439-89-6	Iron	2960			P
7439-92-1	Lead	1.3	B		P
7439-95-4	Magnesium	21500			P
7439-96-5	Manganese	720			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	11.7	B		P
7440-09-7	Potassium	449	B	E	P
7782-49-2	Selenium	1.6	U		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	7020			P
7440-28-0	Thallium	2.1	U		P
7440-62-2	Vanadium	2.9	B		P
7440-66-6	Zinc	21.0			P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW39-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944515

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044515B57

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	7	J
67-64-1	Acetone	4	JB
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	2	J
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	1	J
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	1	J
540-59-0	1,2-Dichloroethene (total)	2	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW39-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944515

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn044515b57

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW39-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944515

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044515A64

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/11/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW39-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944515

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044515A64

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/11/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW39-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944515

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044515A64

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/11/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	14.68	5	J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
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27.					
28.					
29.					
30.					

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW39-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944515

Sample wt/vol: 1080 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/10/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/12/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.046	U
319-85-7	beta-BHC	0.046	U
319-86-8	delta-BHC	0.046	U
58-89-9	gamma-BHC (Lindane)	0.046	U
76-44-8	Heptachlor	0.046	U
309-00-2	Aldrin	0.046	U
1024-57-3	Heptachlor epoxide	0.046	U
959-98-8	Endosulfan I	0.046	U
60-57-1	Dieldrin	0.092	U
72-55-9	4,4'-DDE	0.092	U
72-20-8	Endrin	0.092	U
33213-65-9	Endosulfan II	0.092	U
72-54-8	4,4'-DDD	0.092	U
1031-07-8	Endosulfan sulfate	0.092	U
50-29-3	4,4'-DDT	0.092	U
72-43-5	Methoxychlor	0.46	U
53494-70-5	Endrin ketone	0.092	U
7421-93-4	Endrin aldehyde	0.092	U
5103-71-9	alpha-Chlordane	0.046	U
5103-74-2	gamma-Chlordane	0.046	U
8001-35-2	Toxaphene	4.6	U
12674-11-2	Aroclor-1016	0.92	U
11104-28-2	Aroclor-1221	1.8	U
11141-16-5	Aroclor-1232	0.92	U
53469-21-9	Aroclor-1242	0.92	U
12672-29-6	Aroclor-1248	0.92	U
11097-69-1	Aroclor-1254	0.92	U
11096-82-5	Aroclor-1260	0.92	U

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW39-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix (soil/water): WATER Lab Sample ID: 944515

Level (low/med): LOW Date Received: 06/10/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	25.0	B		P
7440-36-0	Antimony	1.0	U		P
7440-38-2	Arsenic	1.4	U		P
7440-39-3	Barium	77.3	B		P
7440-41-7	Beryllium	0.12	B		P
7440-43-9	Cadmium	0.74	B		P
7440-70-2	Calcium	103000			P
7440-47-3	Chromium	0.83	B		P
7440-48-4	Cobalt	1.2	B		P
7440-50-8	Copper	0.63	B		P
7439-89-6	Iron	6640			P
7439-92-1	Lead	1.0	B		P
7439-95-4	Magnesium	18700			P
7439-96-5	Manganese	714			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	0.50	U		P
7440-09-7	Potassium	5280		E	P
7782-49-2	Selenium	1.6	U		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	154000			P
7440-28-0	Thallium	2.1	U		P
7440-62-2	Vanadium	0.48	B		P
7440-66-6	Zinc	0.40	U		P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW40-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944518

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044518B57

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
71-55-6	1,1,1-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
127-18-4	Tetrachloroethene	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
156-59-2	cis-1,2-Dichloroethene	10	U

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACSGWMW40-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix (soil/water): WATER Lab Sample ID: 944518

Level (low/med): LOW Date Received: 06/10/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	1.4	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	3.4			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW41-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944739

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CR044739B57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWMW41-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944739

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cr044739b57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW41-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944739

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044739A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW41-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944739

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044739A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _ _

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACSGWMW41-09

Lab Name: COMPU_IEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944739

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044739A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 28

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN SILOXANE	6.84	20	J
2.		UNKNOWN SILOXANE	6.89	15	J
3.		TRIMETHYLBENZENE	7.11	7	J
4.		UNKNOWN	7.43	20	J
5.		UNKNOWN	7.77	9	J
6.		UNKNOWN	8.26	6	J
7.		UNKNOWN	8.40	6	J
8.		UNKNOWN SILOXANE	8.53	12	J
9.		UNKNOWN	8.75	9	J
10.		UNKNOWN	9.41	6	J
11.		UNKNOWN	9.55	11	J
12.		UNKNOWN	9.85	74	J
13.		UNKNOWN	10.00	5	J
14.		UNKNOWN	10.14	17	J
15.		UNKNOWN	10.41	270	J
16.		UNKNOWN	10.54	39	J
17.		UNKNOWN	10.63	30	J
18.		UNKNOWN	10.74	10	J
19.		UNKNOWN	11.27	9	J
20.		UNKNOWN	11.64	9	J
21.		UNKNOWN	11.84	15	J
22.		UNKNOWN	12.13	7	J
23.		UNKNOWN	12.27	11	J
24.		UNKNOWN	12.54	12	J
25.		UNKNOWN	12.62	16	J
26.		UNKNOWN	12.77	9	J
27.		UNKNOWN	15.02	21	J
28.		UNKNOWN SILOXANE	18.82	10	J
29.					
30.					

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW41-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944739

Sample wt/vol: 1020 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/11/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/15/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/17/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.049	U
319-85-7	beta-BHC	0.049	U
319-86-8	delta-BHC	0.049	U
58-89-9	gamma-BHC (Lindane)	0.049	U
76-44-8	Heptachlor	0.049	U
309-00-2	Aldrin	0.049	U
1024-57-3	Heptachlor epoxide	0.049	U
959-98-8	Endosulfan I	0.049	U
60-57-1	Dieldrin	0.098	U
72-55-9	4,4'-DDE	0.098	U
72-20-8	Endrin	0.098	U
33213-65-9	Endosulfan II	0.098	U
72-54-8	4,4'-DDD	0.098	U
1031-07-8	Endosulfan sulfate	0.098	U
50-29-3	4,4'-DDT	0.098	U
72-43-5	Methoxychlor	0.49	U
53494-70-5	Endrin ketone	0.098	U
7421-93-4	Endrin aldehyde	0.098	U
5103-71-9	alpha-Chlordane	0.049	U
5103-74-2	gamma-Chlordane	0.049	U
8001-35-2	Toxaphene	4.9	U
12674-11-2	Aroclor-1016	0.98	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	0.98	U
53469-21-9	Aroclor-1242	0.98	U
12672-29-6	Aroclor-1248	0.98	U
11097-69-1	Aroclor-1254	0.98	U
11096-82-5	Aroclor-1260	0.98	U

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACSGWMW41-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix (soil/water): WATER Lab Sample ID: 944739

Level (low/med): LOW Date Received: 06/11/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	99.2	B		P
7440-36-0	Antimony	1.4	B		P
7440-38-2	Arsenic	1.4	U		P
7440-39-3	Barium	17.6	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.29	B		P
7440-70-2	Calcium	41400			P
7440-47-3	Chromium	8.6	B		P
7440-48-4	Cobalt	1.7	B		P
7440-50-8	Copper	4.2	B		P
7439-89-6	Iron	187			P
7439-92-1	Lead	1.3	B		P
7439-95-4	Magnesium	13900			P
7439-96-5	Manganese	16.3			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	4.7	B		P
7440-09-7	Potassium	279	B	E	P
7782-49-2	Selenium	1.6	U		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	8350			P
7440-28-0	Thallium	2.1	U		P
7440-62-2	Vanadium	0.40	U		P
7440-66-6	Zinc	0.40	U		P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW42-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944693

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CR044693B57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	3	JB
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWMW42-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944693

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cr044693b57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW42-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944693

Sample wt/vol: 950 (g/mL) ML Lab File ID: GH044693A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	26	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	26	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	26	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW42-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944693

Sample wt/vol: 950 (g/mL) ML Lab File ID: GH044693A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	26	U
100-02-7	4-Nitrophenol	26	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	26	U
534-52-1	4,6-Dinitro-2-methylphenol	26	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	26	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWMW42-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944693

Sample wt/vol: 950 (g/mL) ML Lab File ID: GH044693A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	11.62	3	J
2.		UNKNOWN	17.74	10	J
3.		UNKNOWN	20.33	6	J
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW42-09MS

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944476

Sample wt/vol: 500 (g/mL) ML Lab File ID: GH044476B70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	53	
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	52	
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	32	
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	32	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	39	
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	70	
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	36	

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: ACSGWMW42-09MS

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944476

Sample wt/vol: 500 (g/mL) ML Lab File ID: GH044476B70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	68	
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	35	
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	91	E
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	42	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

EPA SAMPLE NO.
ACSGWMW42-09MSD

Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944477

Sample wt/vol: 500 (g/mL) ML Lab File ID: GH044477B70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	50	
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	54	
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	26	
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	27	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	33	
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	66	
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	37	

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW42-09MSD

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944477

Sample wt/vol: 500 (g/mL) ML Lab File ID: GH044477B70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	66	
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	38	
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	88	E
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	43	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW42-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944693

Sample wt/vol: 980.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/11/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/16/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.051	U
319-85-7	beta-BHC	0.051	U
319-86-8	delta-BHC	0.051	U
58-89-9	gamma-BHC (Lindane)	0.051	U
76-44-8	Heptachlor	0.051	U
309-00-2	Aldrin	0.051	U
1024-57-3	Heptachlor epoxide	0.051	U
959-98-8	Endosulfan I	0.051	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.51	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.051	U
5103-74-2	gamma-Chlordane	0.051	U
8001-35-2	Toxaphene	5.1	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACSGWMW42-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix (soil/water): WATER Lab Sample ID: 944693

Level (low/med): LOW Date Received: 06/11/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8.9	U		P
7440-36-0	Antimony	26.2	B		P
7440-38-2	Arsenic	2.3	B		P
7440-39-3	Barium	65.4	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	1.0	B		P
7440-70-2	Calcium	107000			P
7440-47-3	Chromium	0.71	B		P
7440-48-4	Cobalt	1.4	B		P
7440-50-8	Copper	1.7	B		P
7439-89-6	Iron	3390			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	40300			P
7439-96-5	Manganese	631			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	0.50	U		P
7440-09-7	Potassium	868	B	E	P
7782-49-2	Selenium	1.6	U		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	14800			P
7440-28-0	Thallium	2.1	U		P
7440-62-2	Vanadium	0.40	U		P
7440-66-6	Zinc	0.40	U		P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW43-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945262

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045262A57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	4	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW43-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945262

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045262a57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW43-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945262

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045262B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW43-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945262

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045262B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW43-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945262

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045262B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	17.59	3	J
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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW43-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945262

Sample wt/vol: 1030 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/12/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/16/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.048	U
319-85-7	beta-BHC	0.0045	JB
319-86-8	delta-BHC	0.048	U
58-89-9	gamma-BHC (Lindane)	0.048	U
76-44-8	Heptachlor	0.048	U
309-00-2	Aldrin	0.048	U
1024-57-3	Heptachlor epoxide	0.048	U
959-98-8	Endosulfan I	0.048	U
60-57-1	Dieldrin	0.097	U
72-55-9	4,4'-DDE	0.097	U
72-20-8	Endrin	0.097	U
33213-65-9	Endosulfan II	0.097	U
72-54-8	4,4'-DDD	0.097	U
1031-07-8	Endosulfan sulfate	0.097	U
50-29-3	4,4'-DDT	0.097	U
72-43-5	Methoxychlor	0.48	U
53494-70-5	Endrin ketone	0.097	U
7421-93-4	Endrin aldehyde	0.097	U
5103-71-9	alpha-Chlordane	0.048	U
5103-74-2	gamma-Chlordane	0.048	U
8001-35-2	Toxaphene	4.8	U
12674-11-2	Aroclor-1016	0.97	U
11104-28-2	Aroclor-1221	1.9	U
11141-16-5	Aroclor-1232	0.97	U
53469-21-9	Aroclor-1242	0.97	U
12672-29-6	Aroclor-1248	0.97	U
11097-69-1	Aroclor-1254	0.97	U
11096-82-5	Aroclor-1260	0.97	U

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
MW43-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix (soil/water): WATER Lab Sample ID: 945262

Level (low/med): LOW Date Received: 06/12/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	211			P
7440-36-0	Antimony	1.8	U		P
7440-38-2	Arsenic	22.8			P
7440-39-3	Barium	58.0	B		P
7440-41-7	Beryllium	0.32	B		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	105000			P
7440-47-3	Chromium	3.4	B		P
7440-48-4	Cobalt	2.1	B		P
7440-50-8	Copper	1.3	B		P
7439-89-6	Iron	10000			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	45500			P
7439-96-5	Manganese	245			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	4.3	B		P
7440-09-7	Potassium	465	B		P
7782-49-2	Selenium	3.1	U		P
7440-22-4	Silver	0.30	U		P
7440-23-5	Sodium	14700			P
7440-28-0	Thallium	4.1	U		P
7440-62-2	Vanadium	1.6	B		P
7440-66-6	Zinc	1.1	U		P
	Cyanide	40.6			CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW44-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944691

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CR044691B57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	6	JB
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWMW44-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944691

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cr044691b57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		SEMI TCL	20.21	7	J
2.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW44-99

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944692

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044692A57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	3	JB
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWMW44-99

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944692

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn044692a57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
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EPA SAMPLE NO.

ACSGWMW44-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944691

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044691A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW44-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944691

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044691A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWMW44-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944691

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044691A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 14

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	6.88	100	J
2.		UNKNOWN (BC)	7.43	12	JB
3.		UNKNOWN SILOXANE	8.53	12	J
4.		UNKNOWN (BC)	8.75	8	JB
5.		UNKNOWN	9.49	12	J
6.		UNKNOWN	9.81	55	J
7.		UNKNOWN	10.41	230	J
8.		UNKNOWN	10.52	24	J
9.		UNKNOWN	11.84	22	J
10.		UNKNOWN	12.26	10	J
11.		UNKNOWN	12.53	9	J
12.		UNKNOWN (BC)	12.62	12	JB
13.		UNKNOWN	15.02	15	J
14.		UNKNOWN	16.84	28	J
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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW44-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944691

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/11/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/16/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.0018	JP
1024-57-3	Heptachlor epoxide	0.0011	JP
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.0011	JP
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACSGWMW44-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix (soil/water): WATER Lab Sample ID: 944691

Level (low/med): LOW Date Received: 06/11/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8.9	U		P
7440-36-0	Antimony	1.0	U		P
7440-38-2	Arsenic	7.3	B		P
7440-39-3	Barium	119	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	1.1	B		P
7440-70-2	Calcium	87800			P
7440-47-3	Chromium	5.9	B		P
7440-48-4	Cobalt	0.51	B		P
7440-50-8	Copper	2.3	B		P
7439-89-6	Iron	1700			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	38000			P
7439-96-5	Manganese	35.1			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	3.1	B		P
7440-09-7	Potassium	973	B	E	P
7782-49-2	Selenium	1.6	U		P
7440-22-4	Silver	0.52	B		P
7440-23-5	Sodium	26400			P
7440-28-0	Thallium	2.1	U		P
7440-62-2	Vanadium	0.40	U		P
7440-66-6	Zinc	0.40	U		P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW44-99

Lab Name: COMPU CHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944692

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044692A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW44-99

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944692

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044692A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWMW44-99

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944692

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044692A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 24

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN SILOXANE	6.84	13	J
2.		UNKNOWN	7.44	17	J
3.		UNKNOWN	7.77	13	J
4.		UNKNOWN	8.53	7	J
5.		UNKNOWN (BC)	8.75	11	JB
6.		UNKNOWN (BC)	9.55	13	JB
7.		UNKNOWN	9.63	7	J
8.		UNKNOWN	9.82	39	J
9.		UNKNOWN	10.16	37	J
10.		UNKNOWN	10.22	28	J
11.		UNKNOWN	10.39	170	J
12.		UNKNOWN	10.49	22	J
13.		UNKNOWN	10.54	20	J
14.		UNKNOWN	10.63	59	J
15.		UNKNOWN	11.29	8	J
16.		UNKNOWN	11.85	21	J
17.		UNKNOWN	12.27	17	J
18.		UNKNOWN	12.54	37	J
19.		UNKNOWN (BC)	12.64	36	JB
20.		UNKNOWN	12.79	16	J
21.		UNKNOWN	12.91	21	J
22.		UNKNOWN	12.98	14	J
23.		UNKNOWN	13.35	31	J
24.		UNKNOWN	19.33	26	J
25.					
26.					
27.					
28.					
29.					
30.					

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW44-99

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944692

Sample wt/vol: 1030 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/11/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/16/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.048	U
319-85-7	beta-BHC	0.048	U
319-86-8	delta-BHC	0.048	U
58-89-9	gamma-BHC (Lindane)	0.048	U
76-44-8	Heptachlor	0.0023	JP
309-00-2	Aldrin	0.048	U
1024-57-3	Heptachlor epoxide	0.048	U
959-98-8	Endosulfan I	0.048	U
60-57-1	Dieldrin	0.097	U
72-55-9	4,4'-DDE	0.097	U
72-20-8	Endrin	0.097	U
33213-65-9	Endosulfan II	0.097	U
72-54-8	4,4'-DDD	0.097	U
1031-07-8	Endosulfan sulfate	0.097	U
50-29-3	4,4'-DDT	0.097	U
72-43-5	Methoxychlor	0.48	U
53494-70-5	Endrin ketone	0.097	U
7421-93-4	Endrin aldehyde	0.097	U
5103-71-9	alpha-Chlordane	0.048	U
5103-74-2	gamma-Chlordane	0.048	U
8001-35-2	Toxaphene	4.8	U
12674-11-2	Aroclor-1016	0.97	U
11104-28-2	Aroclor-1221	1.9	U
11141-16-5	Aroclor-1232	0.97	U
53469-21-9	Aroclor-1242	0.97	U
12672-29-6	Aroclor-1248	0.97	U
11097-69-1	Aroclor-1254	0.97	U
11096-82-5	Aroclor-1260	0.97	U

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACSGWMW44-99

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix (soil/water): WATER Lab Sample ID: 944692

Level (low/med): LOW Date Received: 06/11/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	38.9	B		P
7440-36-0	Antimony	72.1			P
7440-38-2	Arsenic	17.2			P
7440-39-3	Barium	135	B		P
7440-41-7	Beryllium	0.21	B		P
7440-43-9	Cadmium	0.61	B		P
7440-70-2	Calcium	87100			P
7440-47-3	Chromium	48.2			P
7440-48-4	Cobalt	0.43	B		P
7440-50-8	Copper	4.1	B		P
7439-89-6	Iron	5810			P
7439-92-1	Lead	1.8	B		P
7439-95-4	Magnesium	37700			P
7439-96-5	Manganese	35.7			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	5.4	B		P
7440-09-7	Potassium	890	B	E	P
7782-49-2	Selenium	1.6	U		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	25800			P
7440-28-0	Thallium	2.1	U		P
7440-62-2	Vanadium	0.40	U		P
7440-66-6	Zinc	0.40	U		P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW45-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944740

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: C2R44740A57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 5.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	38	J
75-09-2	Methylene Chloride	50	U
67-64-1	Acetone	50	U
75-15-0	Carbon Disulfide	50	U
75-35-4	1,1-Dichloroethene	50	U
75-34-3	1,1-Dichloroethane	50	U
67-66-3	Chloroform	50	U
107-06-2	1,2-Dichloroethane	50	U
78-93-3	2-Butanone	50	U
71-55-6	1,1,1-Trichloroethane	50	U
56-23-5	Carbon Tetrachloride	50	U
75-27-4	Bromodichloromethane	50	U
78-87-5	1,2-Dichloropropane	50	U
10061-01-5	cis-1,3-Dichloropropene	50	U
79-01-6	Trichloroethene	50	U
124-48-1	Dibromochloromethane	50	U
79-00-5	1,1,2-Trichloroethane	50	U
71-43-2	Benzene	360	
10061-02-6	trans-1,3-Dichloropropene	50	U
75-25-2	Bromoform	50	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
108-88-3	Toluene	50	U
108-90-7	Chlorobenzene	17	J
100-41-4	Ethylbenzene	50	U
100-42-5	Styrene	50	U
1330-20-7	Xylene (Total)	16	J
540-59-0	1,2-Dichloroethene (total)	50	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW44-09MS

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944480

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/10/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/16/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.0050	JPB
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.44	
76-44-8	Heptachlor	0.43	
309-00-2	Aldrin	0.41	
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	1.0	
72-55-9	4,4'-DDE	0.0037	J
72-20-8	Endrin	1.1	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.0049	JP
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	1.1	
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.065	JP
7421-93-4	Endrin aldehyde	0.070	JP
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW44-09MSD

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944479

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/10/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/16/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.0065	JPB
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.43	
76-44-8	Heptachlor	0.41	
309-00-2	Aldrin	0.36	
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	1.0	
72-55-9	4,4'-DDE	0.0034	J
72-20-8	Endrin	1.1	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.0059	J
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	1.1	
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.057	JP
7421-93-4	Endrin aldehyde	0.058	JP
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWMW45-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944740

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: c2r44740a57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 5.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		TRIMETHYLBENZENE	20.73	198	J
2.		TRIMETHYLBENZENE	21.16	53	J
3.		SEMI TCL	23.84	94	J
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
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19.					
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28.					
29.					
30.					

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW45-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944740

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044740A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/21/99 · 40 days.

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	5	J
111-44-4	bis(2-Chloroethyl)ether	5	J
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	2	J
95-50-1	1,2-Dichlorobenzene	4	J
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	7	J
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	2	J
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	97	E
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	2	J
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW45-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944740

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044740A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/21/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWMW45-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944740

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044740A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/21/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 23

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	6.91	27	J
2.		TRIMETHYLBENZENE	7.12	170	J
3.		TRIMETHYLBENZENE	7.44	80	J
4.		SUBSTITUTED BENZENE	8.06	12	J
5.		UNKNOWN	8.26	10	J
6.		UNKNOWN	8.38	13	J
7.		TETRAMETHYLBENZENE	8.54	17	J
8.		UNKNOWN	8.75	7	J
9.		UNKNOWN	8.86	18	J
10.		UNKNOWN (BC)	9.06	7	JB
11.		UNKNOWN	9.55	7	J
12.		UNKNOWN	9.77	20	J
13.		UNKNOWN	10.12	18	J
14.		UNKNOWN	10.29	66	J
15.	90-12-0	NAPHTHALENE, 1-METHYL-	10.51	27	NJ
16.		UNKNOWN	10.61	140	J
17.		UNKNOWN	11.63	8	J
18.		UNKNOWN	11.83	6	J
19.		UNKNOWN	12.52	8	J
20.		UNKNOWN	12.61	7	J
21.	76-73-3	SECOBARBITAL	14.36	6	NJ
22.		UNKNOWN	15.01	7	J
23.		UNKNOWN	19.35	34	J
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW45-09RE

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944740

Sample wt/vol: 970 (g/mL) ML Lab File ID: GR044740A66

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 07/07/99 27 days

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/10/99 29 days

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	31	
111-44-4	bis(2-Chloroethyl)ether	4	J
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	2	J
95-50-1	1,2-Dichlorobenzene	4	J
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	7	J
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	11	
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	0.5	J
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	26	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	26	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	26	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW45-09RE

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944740

Sample wt/vol: 970 (g/mL) ML Lab File ID: GR044740A66

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:07/07/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/10/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	26	U
100-02-7	4-Nitrophenol	26	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	26	U
534-52-1	4,6-Dinitro-2-methylphenol	26	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	26	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACSGWMW45-09RE

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944740

Sample wt/vol: 970 (g/mL) ML Lab File ID: GR044740A66

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:07/07/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/10/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 26

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		ETHYLMETHYLBENZENE	5.81	5	J
2.		TRIMETHYLBENZENE	5.88	3	J
3.		TRIMETHYLBENZENE	6.19	72	J
4.		TRIMETHYLBENZENE	6.52	41	J
5.		SUBSTITUTED BENZENE	6.82	3	J
6.		DIETHYLBENZENE	6.93	3	J
7.		UNKNOWN	7.10	5	J
8.		ETHYLDIMETHYLBENZENE	7.16	2	J
9.		SUBSTITUTED BENZENE	7.19	3	J
10.		UNKNOWN	7.63	4	J
11.		UNKNOWN	7.93	2	J
12.		UNKNOWN	8.03	8	J
13.	90-12-0	NAPHTHALENE, 1-METHYL-	9.82	3	NJ
14.		DIMETHYLBENZOIC ACID	10.05	8	J
15.		DIMETHYLBENZOIC ACID	10.61	16	J
16.		UNKNOWN	10.75	8	J
17.		UNKNOWN	11.07	2	J
18.		UNKNOWN	11.26	3	J
19.		UNKNOWN	11.33	4	J
20.		SUBSTITUTED BENZENE	11.64	5	J
21.		UNKNOWN	11.73	2	J
22.		UNKNOWN	11.92	2	J
23.		SUBSTITUTED BENZENE	12.87	3	J
24.	76-73-3	SECOBARBITAL	14.08	12	NJ
25.		UNKNOWN	15.13	3	J
26.	50-06-6	PHENOBARBITAL	15.54	3	NJ
27.					
28.					
29.					
30.					

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW45-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944740

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/11/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/15/99 5 days

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99 21 days

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.0032	JP
319-85-7	beta-BHC	0.0078	JP
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACSGWMW45-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix (soil/water): WATER Lab Sample ID: 944740

Level (low/med): LOW Date Received: 06/11/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	311			P
7440-36-0	Antimony	2.1	B		P
7440-38-2	Arsenic	43.5			P
7440-39-3	Barium	84.2	B		P
7440-41-7	Beryllium	0.26	B		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	88900			P
7440-47-3	Chromium	64.1			P
7440-48-4	Cobalt	3.0	B		P
7440-50-8	Copper	5.0	B		P
7439-89-6	Iron	16600			P
7439-92-1	Lead	1.8	B		P
7439-95-4	Magnesium	23300			P
7439-96-5	Manganese	285			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	48.3			P
7440-09-7	Potassium	5430		E	P
7782-49-2	Selenium	3.1	U	N	P
7440-22-4	Silver	0.30	U		P
7440-23-5	Sodium	94000			P
7440-28-0	Thallium	4.1	U		P
7440-62-2	Vanadium	1.1	B		P
7440-66-6	Zinc	5.6	B	*	P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW46-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945260

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045260A57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW46-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945260

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045260a57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	108-20-3	DIISOPROPYL ETHER	10.72	10	NJ
2.					
3.					
4.					
5.					
6.					
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW46-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945260

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045260B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW46-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945260

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045260B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW46-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945260

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045260B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		SULFUR	10.04	2	J
2.		UNKNOWN	12.07	3	J
3.		SULFUR	12.14	2	J
4.		UNKNOWN	12.96	3	J
5.	10544-50-0	SULFUR, MOL. (S8)	13.79	6	NJ
6.	10546-70-0	BENZAMIDE, N-PROPYL-	15.90	5	NJ
7.					
8.					
9.					
10.					
11.					
12.					
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1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW46-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945260

Sample wt/vol: 1050 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/12/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/16/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/17/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.048	U
319-85-7	beta-BHC	0.048	U
319-86-8	delta-BHC	0.048	U
58-89-9	gamma-BHC (Lindane)	0.048	U
76-44-8	Heptachlor	0.048	U
309-00-2	Aldrin	0.048	U
1024-57-3	Heptachlor epoxide	0.048	U
959-98-8	Endosulfan I	0.048	U
60-57-1	Dieldrin	0.095	U
72-55-9	4,4'-DDE	0.095	U
72-20-8	Endrin	0.095	U
33213-65-9	Endosulfan II	0.095	U
72-54-8	4,4'-DDD	0.095	U
1031-07-8	Endosulfan sulfate	0.095	U
50-29-3	4 4'-DDT	0.095	U
72-43-5	Methoxychlor	0.48	U
53494-70-5	Endrin ketone	0.095	U
7421-93-4	Endrin aldehyde	0.095	U
5103-71-9	alpha-Chlordane	0.048	U
5103-74-2	gamma-Chlordane	0.048	U
8001-35-2	Toxaphene	4.8	U
12674-11-2	Aroclor-1016	0.95	U
11104-28-2	Aroclor-1221	1.9	U
11141-16-5	Aroclor-1232	0.95	U
53469-21-9	Aroclor-1242	0.95	U
12672-29-6	Aroclor-1248	0.95	U
11097-69-1	Aroclor-1254	0.95	U
11096-82-5	Aroclor-1260	0.95	U

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW46-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix (soil/water): WATER Lab Sample ID: 945260

Level (low/med): LOW Date Received: 06/12/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	39.2	B		P
7440-36-0	Antimony	1.8	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	146	B		P
7440-41-7	Beryllium	0.21	B		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	135000			P
7440-47-3	Chromium	0.90	U		P
7440-48-4	Cobalt	0.60	U		P
7440-50-8	Copper	1.1	U		P
7439-89-6	Iron	33000			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	37500			P
7439-96-5	Manganese	1810			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	798	B		P
7782-49-2	Selenium	3.1	U		P
7440-22-4	Silver	0.30	U		P
7440-23-5	Sodium	73400			P
7440-28-0	Thallium	4.1	U		P
7440-62-2	Vanadium	1.8	B		P
7440-66-6	Zinc	2.2	B		P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW47-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945256

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045256A57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW47-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945256

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045256a57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW47-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945256

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045256B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW47-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945256

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045256B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW47-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945256

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045256B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	5.14	3	J
2.					
3.					
4.					
5.					
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8.					
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1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW47-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945256

Sample wt/vol: 1020 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/12/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/16/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.049	U
319-85-7	beta-BHC	0.049	U
319-86-8	delta-BHC	0.049	U
58-89-9	gamma-BHC (Lindane)	0.049	U
76-44-8	Heptachlor	0.049	U
309-00-2	Aldrin	0.049	U
1024-57-3	Heptachlor epoxide	0.049	U
959-98-8	Endosulfan I	0.049	U
60-57-1	Dieldrin	0.098	U
72-55-9	4,4'-DDE	0.098	U
72-20-8	Endrin	0.098	U
33213-65-9	Endosulfan II	0.098	U
72-54-8	4,4'-DDD	0.098	U
1031-07-8	Endosulfan sulfate	0.098	U
50-29-3	4,4'-DDT	0.098	U
72-43-5	Methoxychlor	0.49	U
53494-70-5	Endrin ketone	0.098	U
7421-93-4	Endrin aldehyde	0.098	U
5103-71-9	alpha-Chlordane	0.049	U
5103-74-2	gamma-Chlordane	0.049	U
8001-35-2	Toxaphene	4.9	U
12674-11-2	Aroclor-1016	0.98	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	0.98	U
53469-21-9	Aroclor-1242	0.98	U
12672-29-6	Aroclor-1248	0.98	U
11097-69-1	Aroclor-1254	0.98	U
11096-82-5	Aroclor-1260	0.98	U

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
MW47-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix (soil/water): WATER Lab Sample ID: 945256

Level (low/med): LOW Date Received: 06/12/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	130	B		P
7440-36-0	Antimony	2.3	B		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	6.2	B		P
7440-41-7	Beryllium	0.28	B		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	7680			P
7440-47-3	Chromium	3.2	B		P
7440-48-4	Cobalt	0.74	B		P
7440-50-8	Copper	1.4	B		P
7439-89-6	Iron	172			P
7439-92-1	Lead	1.6	B		P
7439-95-4	Magnesium	2480	B		P
7439-96-5	Manganese	5.4	B		P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	1.8	B		P
7440-09-7	Potassium	613	B		P
7782-49-2	Selenium	3.1	U		P
7440-22-4	Silver	0.58	B		P
7440-23-5	Sodium	4900	B		P
7440-28-0	Thallium	4.1	U		P
7440-62-2	Vanadium	0.70	B		P
7440-66-6	Zinc	1.1	U		P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Duplicate (MW47-09D)

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW47-09MS

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945239

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045239A57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	2	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	46	
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	46	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	49	
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	48	
108-90-7	Chlorobenzene	48	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW47-09MSD

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945240

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045240A57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	1	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	46	
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	47	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	49	
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	48	
108-90-7	Chlorobenzene	48	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW47-09MS

Lab Name: COMPUCHEM Contra t: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945243

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045243B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	49	
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	48	
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	25	
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	25	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	34	
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	62	
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	40	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW47-09MS

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945243

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045243B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	72	
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	42	
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	56	
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	40	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW47-09MSD

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945244

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045244B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	71	
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	42	
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	57	
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	45	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

100A

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW47-09MSD

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945244

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045244B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	55	
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	70	
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	39	
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	31	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	43	
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	74	
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	44	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW47-09MS

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945245

Sample wt/vol: 1130 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/14/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/16/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.044	U
319-85-7	beta-BHC	0.044	U
319-86-8	delta-BHC	0.044	U
58-89-9	gamma-BHC (Lindane)	0.38	
76-44-8	Heptachlor	0.42	
309-00-2	Aldrin	0.41	
1024-57-3	Heptachlor epoxide	0.044	U
959-98-8	Endosulfan I	0.044	U
60-57-1	Dieldrin	0.86	
72-55-9	4,4'-DDE	0.0028	JP
72-20-8	Endrin	1.0	
33213-65-9	Endosulfan II	0.088	U
72-54-8	4,4'-DDD	0.0037	JP
1031-07-8	Endosulfan sulfate	0.088	U
50-29-3	4,4'-DDT	0.92	
72-43-5	Methoxychlor	0.44	U
53494-70-5	Endrin ketone	0.030	JP
7421-93-4	Endrin aldehyde	0.030	JP
5103-71-9	alpha-Chlordane	0.044	U
5103-74-2	gamma-Chlordane	0.044	U
8001-35-2	Toxaphene	4.4	U
12674-11-2	Aroclor-1016	0.88	U
11104-28-2	Aroclor-1221	1.8	U
11141-16-5	Aroclor-1232	0.88	U
53469-21-9	Aroclor-1242	0.88	U
12672-29-6	Aroclor-1248	0.88	U
11097-69-1	Aroclor-1254	0.88	U
11096-82-5	Aroclor-1260	0.88	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW47-09MSD

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945246

Sample wt/vol: 1020 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/14/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/16/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.049	U
319-85-7	beta-BHC	0.049	U
319-86-8	delta-BHC	0.049	U
58-89-9	gamma-BHC (Lindane)	0.30	
76-44-8	Heptachlor	0.34	
309-00-2	Aldrin	0.34	
1024-57-3	Heptachlor epoxide	0.049	U
959-98-8	Endosulfan I	0.049	U
60-57-1	Dieldrin	0.74	
72-55-9	4,4'-DDE	0.0023	J
72-20-8	Endrin	0.83	
33213-65-9	Endosulfan II	0.098	U
72-54-8	4,4'-DDD	0.0046	JP
1031-07-8	Endosulfan sulfate	0.098	U
50-29-3	4,4'-DDT	0.78	
72-43-5	Methoxychlor	0.49	U
53494-70-5	Endrin ketone	0.035	JP
7421-93-4	Endrin aldehyde	0.034	JP
5103-71-9	alpha-Chlordane	0.049	U
5103-74-2	gamma-Chlordane	0.049	U
8001-35-2	Toxaphene	4.9	U
12674-11-2	Aroclor-1016	0.98	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	0.98	U
53469-21-9	Aroclor-1242	0.98	U
12672-29-6	Aroclor-1248	0.98	U
11097-69-1	Aroclor-1254	0.98	U
11096-82-5	Aroclor-1260	0.98	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW48-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944469

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044469B57

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 10.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	100	U
74-83-9	Bromomethane	100	U
75-01-4	Vinyl Chloride	100	U
75-00-3	Chloroethane	360	
75-09-2	Methylene Chloride	55	J
67-64-1	Acetone	20	JB
75-15-0	Carbon Disulfide	100	U
75-35-4	1,1-Dichloroethene	100	U
75-34-3	1,1-Dichloroethane	100	U
67-66-3	Chloroform	100	U
107-06-2	1,2-Dichloroethane	100	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	100	U
56-23-5	Carbon Tetrachloride	100	U
75-27-4	Bromodichloromethane	100	U
78-87-5	1,2-Dichloropropane	100	U
10061-01-5	cis-1,3-Dichloropropene	100	U
79-01-6	Trichloroethene	100	U
124-48-1	Dibromochloromethane	100	U
79-00-5	1,1,2-Trichloroethane	100	U
71-43-2	Benzene	4900	E
10061-02-6	trans-1,3-Dichloropropene	100	U
75-25-2	Bromoform	100	U
108-10-1	4-Methyl-2-Pentanone	100	U
591-78-6	2-Hexanone	100	U
127-18-4	Tetrachloroethene	100	U
79-34-5	1,1,2,2-Tetrachloroethane	100	U
108-88-3	Toluene	100	U
108-90-7	Chlorobenzene	100	U
100-41-4	Ethylbenzene	100	U
100-42-5	Styrene	100	U
1330-20-7	Xylene (Total)	100	U
540-59-0	1,2-Dichloroethene (total)	100	U

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW48-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944469

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn044469b57

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 10.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	873-94-9	CYCLOHEXANONE, 3,3,5-TRIMETH	21.73	75	NJ
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
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29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW48-09DL

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944469

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CR044469A57

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 50.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	500	U
74-83-9	Bromomethane	500	U
75-01-4	Vinyl Chloride	500	U
75-00-3	Chloroethane	290	DJ
75-09-2	Methylene Chloride	500	U
67-64-1	Acetone	500	U
75-15-0	Carbon Disulfide	500	U
75-35-4	1,1-Dichloroethene	500	U
75-34-3	1,1-Dichloroethane	500	U
67-66-3	Chloroform	500	U
107-06-2	1,2-Dichloroethane	500	U
78-93-3	2-Butanone	500	U
71-55-6	1,1,1-Trichloroethane	500	U
56-23-5	Carbon Tetrachloride	500	U
75-27-4	Bromodichloromethane	500	U
78-87-5	1,2-Dichloropropane	500	U
10061-01-5	cis-1,3-Dichloropropene	500	U
79-01-6	Trichloroethene	500	U
124-48-1	Dibromochloromethane	500	U
79-00-5	1,1,2-Trichloroethane	500	U
71-43-2	Benzene	5700	D
10061-02-6	trans-1,3-Dichloropropene	500	U
75-25-2	Bromoform	500	U
108-10-1	4-Methyl-2-Pentanone	500	U
591-78-6	2-Hexanone	57	DJB
127-18-4	Tetrachloroethene	500	U
79-34-5	1,1,2,2-Tetrachloroethane	500	U
108-88-3	Toluene	500	U
108-90-7	Chlorobenzene	500	U
100-41-4	Ethylbenzene	500	U
100-42-5	Styrene	500	U
1330-20-7	Xylene (Total)	500	U
540-59-0	1,2-Dichloroethene (total)	500	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW48-09DL

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944469

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cr044469a57

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 50.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW48-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944469

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044469A64

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 06/11/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	110	E
111-44-4	bis(2-Chloroethyl)ether	18	
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	3	J
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW48-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944469

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044469A64

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/11/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW48-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944469

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044469A64

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/11/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		ALDOL	6.49	6	J
2.		UNKNOWN	6.54	8	J
3.		TRICHLOROPROPENE	6.62	6	J
4.		ALDOL	7.77	180	J
5.	116-02-9	CYCLOHEXANOL, 3,3,5-TRIMETHY	7.92	88	NJ
6.	112-36-7	ETHANE, 1,1'-OXYBIS[2-ETHOXY	8.00	22	NJ
7.		UNKNOWN	8.15	5	J
8.	515-30-0	BENZENEACETIC ACID, .ALPHA.-	8.22	2	NJ
9.	4695-62-9	BICYCLO[2.2.1]HEPTAN-2-ONE,	8.31	3	NJ
10.	1707-71-7	ETHYL PYROPHOSPHATE	8.48	3	NJ
11.		UNKNOWN	8.87	15	J
12.	76-22-2	CAMPHOR	8.96	3	NJ
13.		UNKNOWN	9.58	9	J
14.		UNKNOWN	9.84	2	J
15.		UNKNOWN	9.96	3	J
16.		UNKNOWN	10.06	6	J
17.		UNKNOWN	10.09	4	J
18.	74-11-3	BENZOIC ACID, 4-CHLORO-	10.55	10	NJ
19.	529-65-7	ACETAMIDE, N-ETHYL-N-PHENYL-	10.78	4	NJ
20.		UNKNOWN	10.83	3	J
21.		UNKNOWN	11.25	22	J
22.		UNKNOWN	12.24	72	J
23.		UNKNOWN	12.49	7	J
24.		UNKNOWN	13.09	2	J
25.	309-43-3	SECOBARBITAL SODIUM	14.33	9	NJ
26.		UNKNOWN	14.93	13	J
27.		UNKNOWN	17.38	5	J
28.		UNKNOWN	17.71	2	J
29.		UNKNOWN	17.82	36	J
30.		UNKNOWN	20.08	5	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW48-09DL

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944469

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GD044469B64

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/11/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/02/99

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	87	D
111-44-4	bis(2-Chloroethyl)ether	16	DJ
95-57-8	2-Chlorophenol	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
95-50-1	1,2-Dichlorobenzene	20	U
95-48-7	2-Methylphenol	20	U
108-60-1	2,2'-oxybis(1-Chloropropane)	20	U
106-44-5	4-Methylphenol	20	U
621-64-7	N-Nitroso-di-n-propylamine	20	U
67-72-1	Hexachloroethane	20	U
98-95-3	Nitrobenzene	20	U
78-59-1	Isophorone	20	U
88-75-5	2-Nitrophenol	20	U
105-67-9	2,4-Dimethylphenol	20	U
111-91-1	bis(2-Chloroethoxy)methane	20	U
120-83-2	2,4-Dichlorophenol	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U
91-20-3	Naphthalene	20	U
106-47-8	4-Chloroaniline	20	U
87-68-3	Hexachlorobutadiene	20	U
59-50-7	4-Chloro-3-methylphenol	20	U
91-57-6	2-Methylnaphthalene	20	U
77-47-4	Hexachlorocyclopentadiene	20	U
88-06-2	2,4,6-Trichlorophenol	20	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	20	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	20	U
208-96-8	Acenaphthylene	20	U
606-20-2	2,6-Dinitrotoluene	20	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	20	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW48-09DL

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944469

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GD044469B64

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/11/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/02/99

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: __

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	20	U
121-14-2	2,4-Dinitrotoluene	20	U
84-66-2	Diethylphthalate	20	U
7005-72-3	4-Chlorophenyl-phenylether	20	U
86-73-7	Fluorene	20	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-nitrosodiphenylamine (1)	20	U
101-55-3	4-Bromophenyl-phenylether	20	U
118-74-1	Hexachlorobenzene	20	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	20	U
120-12-7	Anthracene	20	U
86-74-8	Carbazole	20	U
84-74-2	Di-n-butylphthalate	20	U
206-44-0	Fluoranthene	20	U
129-00-0	Pyrene	20	U
85-68-7	Butylbenzylphthalate	20	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	20	U
218-01-9	Chrysene	20	U
117-81-7	bis(2-Ethylhexyl)phthalate	20	U
117-84-0	Di-n-octylphthalate	20	U
205-99-2	Benzo(b)fluoranthene	20	U
207-08-9	Benzo(k)fluoranthene	20	U
50-32-8	Benzo(a)pyrene	20	U
193-39-5	Indeno(1,2,3-cd)pyrene	20	U
53-70-3	Dibenzo(a,h)anthracene	20	U
191-24-2	Benzo(g,h,i)perylene	20	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: MW48-09DL

Lab Name: COMPU CHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944469

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GD044469B64

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/11/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/02/99

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 18 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		TRICHLOROPROPENE	6.31	5	JD
2.		ALDOL	7.55	150	JD
3.	116-02-9	CYCLOHEXANOL, 3,3,5-TRIMETHY	7.69	140	NJD
4.		UNKNOWN	7.90	12	JD
5.	112-36-7	ETHANE, 1,1'-OXYBIS[2-ETHOXY	8.01	14	NJD
6.		UNKNOWN	8.17	7	JD
7.		UNKNOWN	8.54	4	JD
8.		UNKNOWN	8.77	10	JD
9.	464-48-2	BICYCLO[2.2.1]HEPTAN-2-ONE,	8.84	5	NJD
10.		UNKNOWN	9.53	8	JD
11.	535-80-8	BENZOIC ACID, 3-CHLORO-	10.73	7	NJD
12.		UNKNOWN	11.37	28	JD
13.		UNKNOWN	12.50	48	JD
14.		UNKNOWN	12.59	5	JD
15.		UNKNOWN	12.84	5	JD
16.	115-44-6	TALBUTAL	14.86	5	NJD
17.		UNKNOWN	15.50	9	JD
18.		UNKNOWN	18.61	27	JD
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW48-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944469

Sample wt/vol: 1050 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/10/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/12/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.011	JP
319-85-7	beta-BHC	0.048	U
319-86-8	delta-BHC	0.048	U
58-89-9	gamma-BHC (Lindane)	0.048	U
76-44-8	Heptachlor	0.0018	JP
309-00-2	Aldrin	0.048	U
1024-57-3	Heptachlor epoxide	0.048	U
959-98-8	Endosulfan I	0.048	U
60-57-1	Dieldrin	0.095	U
72-55-9	4,4'-DDE	0.095	U
72-20-8	Endrin	0.095	U
33213-65-9	Endosulfan II	0.095	U
72-54-8	4,4'-DDD	0.095	U
1031-07-8	Endosulfan sulfate	0.095	U
50-29-3	4,4'-DDT	0.095	U
72-43-5	Methoxychlor	0.48	U
53494-70-5	Endrin ketone	0.095	U
7421-93-4	Endrin aldehyde	0.095	U
5103-71-9	alpha-Chlordane	0.048	U
5103-74-2	gamma-Chlordane	0.048	U
8001-35-2	Toxaphene	4.8	U
12674-11-2	Aroclor-1016	0.95	U
11104-28-2	Aroclor-1221	1.9	U
11141-16-5	Aroclor-1232	0.95	U
53469-21-9	Aroclor-1242	0.95	U
12672-29-6	Aroclor-1248	0.95	U
11097-69-1	Aroclor-1254	0.95	U
11096-82-5	Aroclor-1260	0.95	U

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW48-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix (soil/water): WATER Lab Sample ID: 944469

Level (low/med): LOW Date Received: 06/10/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	119	B		P
7440-36-0	Antimony	1.8	B		P
7440-38-2	Arsenic	4.0	B		P
7440-39-3	Barium	83.5	B		P
7440-41-7	Beryllium	0.13	B		P
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium	84100			P
7440-47-3	Chromium	9.9	B		P
7440-48-4	Cobalt	1.9	B		P
7440-50-8	Copper	2.3	B		P
7439-89-6	Iron	15500			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	12900			P
7439-96-5	Manganese	325			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	14.8	B		P
7440-09-7	Potassium	4030	B	E	P
7782-49-2	Selenium	1.6	U		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	27500			P
7440-28-0	Thallium	2.1	U		P
7440-62-2	Vanadium	2.0	B		P
7440-66-6	Zinc	4.3	B		P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW49-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945689

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045689B57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/30/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	240	E
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	9	JB
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	1	JB
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	620	E
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	1	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	2	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW49-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945689

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045689b57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/30/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW49-09DL

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945689

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: C3R45689B57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 07/01/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 50.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	500	U
74-83-9	Bromomethane	500	U
75-01-4	Vinyl Chloride	500	U
75-00-3	Chloroethane	220	DJ
75-09-2	Methylene Chloride	500	U
67-64-1	Acetone	500	U
75-15-0	Carbon Disulfide	500	U
75-35-4	1,1-Dichloroethene	500	U
75-34-3	1,1-Dichloroethane	500	U
67-66-3	Chloroform	500	U
107-06-2	1,2-Dichloroethane	500	U
78-93-3	2-Butanone	500	U
71-55-6	1,1,1-Trichloroethane	500	U
56-23-5	Carbon Tetrachloride	500	U
75-27-4	Bromodichloromethane	500	U
78-87-5	1,2-Dichloropropane	500	U
10061-01-5	cis-1,3-Dichloropropene	500	U
79-01-6	Trichloroethene	500	U
124-48-1	Dibromochloromethane	500	U
79-00-5	1,1,2-Trichloroethane	500	U
71-43-2	Benzene	2600	D
10061-02-6	trans-1,3-Dichloropropene	500	U
75-25-2	Bromoform	500	U
108-10-1	4-Methyl-2-Pentanone	500	U
591-78-6	2-Hexanone	500	U
127-18-4	Tetrachloroethene	500	U
79-34-5	1,1,2,2-Tetrachloroethane	500	U
108-88-3	Toluene	500	U
108-90-7	Chlorobenzene	500	U
100-41-4	Ethylbenzene	500	U
100-42-5	Styrene	500	U
1330-20-7	Xylene (Total)	500	U
540-59-0	1,2-Dichloroethene (total)	500	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW49-09DL

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945689

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: c3r45689b57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 07/01/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 50.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW49-09DLMS

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945670

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045670B57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 07/02/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 50.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	500	U
74-83-9	Bromomethane	500	U
75-01-4	Vinyl Chloride	500	U
75-00-3	Chloroethane	220	J
75-09-2	Methylene Chloride	160	J
67-64-1	Acetone	67	JB
75-15-0	Carbon Disulfide	500	U
75-35-4	1,1-Dichloroethene	1800	
75-34-3	1,1-Dichloroethane	500	U
67-66-3	Chloroform	500	U
107-06-2	1,2-Dichloroethane	500	U
78-93-3	2-Butanone	500	U
71-55-6	1,1,1-Trichloroethane	500	U
56-23-5	Carbon Tetrachloride	500	U
75-27-4	Bromodichloromethane	500	U
78-87-5	1,2-Dichloropropane	500	U
10061-01-5	cis-1,3-Dichloropropene	500	U
79-01-6	Trichloroethene	2400	
124-48-1	Dibromochloromethane	500	U
79-00-5	1,1,2-Trichloroethane	500	U
71-43-2	Benzene	5000	
10061-02-6	trans-1,3-Dichloropropene	500	U
75-25-2	Bromoform	500	U
108-10-1	4-Methyl-2-Pentanone	500	U
591-78-6	2-Hexanone	500	U
127-18-4	Tetrachloroethene	500	U
79-34-5	1,1,2,2-Tetrachloroethane	500	U
108-88-3	Toluene	2400	
108-90-7	Chlorobenzene	2400	
100-41-4	Ethylbenzene	500	U
100-42-5	Styrene	500	U
1330-20-7	Xylene (Total)	500	U
540-59-0	1,2-Dichloroethene (total)	500	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW49-09DLMSD

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945671

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045671B57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 07/02/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 50.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	500	U
74-83-9	Bromomethane	500	U
75-01-4	Vinyl Chloride	500	U
75-00-3	Chloroethane	220	J
75-09-2	Methylene Chloride	160	J
67-64-1	Acetone	130	JB
75-15-0	Carbon Disulfide	500	U
75-35-4	1,1-Dichloroethene	1900	
75-34-3	1,1-Dichloroethane	500	U
67-66-3	Chloroform	500	U
107-06-2	1,2-Dichloroethane	500	U
78-93-3	2-Butanone	500	U
71-55-6	1,1,1-Trichloroethane	500	U
56-23-5	Carbon Tetrachloride	500	U
75-27-4	Bromodichloromethane	500	U
78-87-5	1,2-Dichloropropane	500	U
10061-01-5	cis-1,3-Dichloropropene	500	U
79-01-6	Trichloroethene	2400	
124-48-1	Dibromochloromethane	500	U
79-00-5	1,1,2-Trichloroethane	500	U
71-43-2	Benzene	5000	
10061-02-6	trans-1,3-Dichloropropene	500	U
75-25-2	Bromoform	500	U
108-10-1	4-Methyl-2-Pentanone	500	U
591-78-6	2-Hexanone	500	U
127-18-4	Tetrachloroethene	500	U
79-34-5	1,1,2,2-Tetrachloroethane	500	U
108-88-3	Toluene	2400	
108-90-7	Chlorobenzene	2400	
100-41-4	Ethylbenzene	500	U
100-42-5	Styrene	500	U
1330-20-7	Xylene (Total)	500	U
540-59-0	1,2-Dichloroethene (total)	500	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW49-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945689

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045689A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/22/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/15/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	71	
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	9	J
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	3	J
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW49-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945689

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045689A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/22/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/15/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW49-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945689

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045689A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 06/22/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/15/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 29

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	106-68-3	3-OCTANONE	5.21	8	NJ
2.		TRICHLOROPROPENE (BC)	5.31	4	JB
3.		UNKNOWN	5.51	2	J
4.		UNKNOWN	6.00	3	J
5.		UNKNOWN	6.31	2	J
6.	873-94-9	CYCLOHEXANONE, 3,3,5-TRIMETH	6.54	290	NJ
7.	116-02-9	CYCLOHEXANOL, 3,3,5-TRIMETHY	6.68	24	NJ
8.	112-36-7	ETHANE, 1,1'-OXYBIS[2-ETHOXY	6.86	10	NJ
9.		UNKNOWN	7.12	8	J
10.	78-40-0	TRIETHYL PHOSPHATE	7.40	4	NJ
11.		UNKNOWN CARBOXYLIC ACID	7.58	4	J
12.		UNKNOWN	7.66	2	J
13.		UNKNOWN	7.96	2	J
14.		UNKNOWN	8.43	5	J
15.	112-26-5	ETHANE, 1,2-BIS(2-CHLOROETHO	9.05	6	NJ
16.	74-11-3	BENZOIC ACID, 4-CHLORO-	9.71	11	NJ
17.		UNKNOWN	9.82	7	J
18.	103-84-4	ACETAMIDE, N-PHENYL-	10.10	6	NJ
19.	480-63-7	BENZOIC ACID, 2,4,6-TRIMETHY	10.47	2	NJ
20.		UNKNOWN	10.64	3	J
21.	480-63-7	BENZOIC ACID, 2,4,6-TRIMETHY	10.98	2	NJ
22.		UNKNOWN	11.29	2	J
23.		UNKNOWN	11.41	94	J
24.		UNKNOWN	11.69	10	J
25.		UNKNOWN	12.59	3	J
26.	309-43-3	SECOBARBITAL SODIUM	13.80	8	NJ
27.		UNKNOWN	14.43	15	J
28.		UNKNOWN	17.55	3	J
29.		UNKNOWN	18.09	31	J
30.					

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW49-09MS

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945674

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G2J45674B66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/22/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	140	E
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	72	
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	45	
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	11	
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	51	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	4	J
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	45	
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	85	E
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	50	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW49-09MS

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945674

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G2J45674B66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/22/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	94	E
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	41	
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	130	E
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	51	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW49-09MSD

Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945675

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045675A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/22/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/15/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	150	E
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	56	
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	32	
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	8	J
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	36	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	4	J
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	42	
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	81	E
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	40	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW49-09MSD

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945675

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045675A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/22/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/15/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	63	
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	46	
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	83	E
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	45	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW49-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945689

Sample wt/vol: 1050 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/16/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/18/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 06/25/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.048	U
319-85-7	beta-BHC	0.048	U
319-86-8	delta-BHC	0.0019	JP
58-89-9	gamma-BHC (Lindane)	0.048	U
76-44-8	Heptachlor	0.0083	JP
309-00-2	Aldrin	0.048	U
1024-57-3	Heptachlor epoxide	0.048	U
959-98-8	Endosulfan I	0.048	U
60-57-1	Dieldrin	0.095	U
72-55-9	4,4'-DDE	0.095	U
72-20-8	Endrin	0.095	U
33213-65-9	Endosulfan II	0.095	U
72-54-8	4,4'-DDD	0.095	U
1031-07-8	Endosulfan sulfate	0.095	U
50-29-3	4,4'-DDT	0.095	U
72-43-5	Methoxychlor	0.48	U
53494-70-5	Endrin ketone	0.0044	JP
7421-93-4	Endrin aldehyde	0.095	U
5103-71-9	alpha-Chlordane	0.048	U
5103-74-2	gamma-Chlordane	0.048	U
8001-35-2	Toxaphene	4.8	U
12674-11-2	Aroclor-1016	0.95	U
11104-28-2	Aroclor-1221	1.9	U
11141-16-5	Aroclor-1232	0.95	U
53469-21-9	Aroclor-1242	0.95	U
12672-29-6	Aroclor-1248	0.95	U
11097-69-1	Aroclor-1254	0.95	U
11096-82-5	Aroclor-1260	0.95	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW49-09MS

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945677

Sample wt/vol: 1020 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/16/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/18/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 06/25/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.049	U
319-85-7	beta-BHC	0.015	J
319-86-8	delta-BHC	0.049	U
58-89-9	gamma-BHC (Lindane)	0.23	
76-44-8	Heptachlor	0.21	
309-00-2	Aldrin	0.21	
1024-57-3	Heptachlor epoxide	0.049	U
959-98-8	Endosulfan I	0.049	U
60-57-1	Dieldrin	0.46	
72-55-9	4,4'-DDE	0.098	U
72-20-8	Endrin	0.52	
33213-65-9	Endosulfan II	0.098	U
72-54-8	4,4'-DDD	0.098	U
1031-07-8	Endosulfan sulfate	0.098	U
50-29-3	4,4'-DDT	0.45	
72-43-5	Methoxychlor	0.49	U
53494-70-5	Endrin ketone	0.0069	JP
7421-93-4	Endrin aldehyde	0.0043	JP
5103-71-9	alpha-Chlordane	0.049	U
5103-74-2	gamma-Chlordane	0.049	U
8001-35-2	Toxaphene	4.9	U
12674-11-2	Aroclor-1016	0.98	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	0.98	U
53469-21-9	Aroclor-1242	0.98	U
12672-29-6	Aroclor-1248	0.98	U
11097-69-1	Aroclor-1254	0.98	U
11096-82-5	Aroclor-1260	0.98	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW49-09MSD

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945676

Sample wt/vol: 1050 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/16/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/18/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 06/25/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.048	U
319-85-7	beta-BHC	0.013	JP
319-86-8	delta-BHC	0.048	U
58-89-9	gamma-BHC (Lindane)	0.28	
76-44-8	Heptachlor	0.29	
309-00-2	Aldrin	0.27	
1024-57-3	Heptachlor epoxide	0.048	U
959-98-8	Endosulfan I	0.048	U
60-57-1	Dieldrin	0.61	
72-55-9	4,4'-DDE	0.095	U
72-20-8	Endrin	0.68	
33213-65-9	Endosulfan II	0.095	U
72-54-8	4,4'-DDD	0.095	U
1031-07-8	Endosulfan sulfate	0.095	U
50-29-3	4,4'-DDT	0.64	
72-43-5	Methoxychlor	0.48	U
53494-70-5	Endrin ketone	0.014	JP
7421-93-4	Endrin aldehyde	0.095	U
5103-71-9	alpha-Chlordane	0.048	U
5103-74-2	gamma-Chlordane	0.048	U
8001-35-2	Toxaphene	4.8	U
12674-11-2	Aroclor-1016	0.95	U
11104-28-2	Aroclor-1221	1.9	U
11141-16-5	Aroclor-1232	0.95	U
53469-21-9	Aroclor-1242	0.95	U
12672-29-6	Aroclor-1248	0.95	U
11097-69-1	Aroclor-1254	0.95	U
11096-82-5	Aroclor-1260	0.95	U

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
MW49-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix (soil/water): WATER Lab Sample ID: 945689

Level (low/med): LOW Date Received: 06/16/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	387			P
7440-36-0	Antimony	42.4	B		P
7440-38-2	Arsenic	25.7			P
7440-39-3	Barium	117	B		P
7440-41-7	Beryllium	0.53	B		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	81900			P
7440-47-3	Chromium	1.9	B		P
7440-48-4	Cobalt	1.3	B		P
7440-50-8	Copper	2.0	B		P
7439-89-6	Iron	32600			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	11900			P
7439-96-5	Manganese	1560			P
7439-97-6	Mercury	0.02	U		CV
7440-02-0	Nickel	5.5	B		P
7440-09-7	Potassium	4030	B	E	P
7782-49-2	Selenium	3.5	B		P
7440-22-4	Silver	0.30	U		P
7440-23-5	Sodium	19900			P
7440-28-0	Thallium	8.0	B		P
7440-62-2	Vanadium	3.6	B		P
7440-66-6	Zinc	10.3	B		P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Duplicate (MW49-09D)

ANALYTICAL REPORT OF DATA - CASE # 34200/00003

SUBMITTED TO:
Ms. Judith Kinch
Montgomery Watson
2100 Corporate Drive
Addison, IL 60101

LABORATORY CHRONICLE - TOTAL ORGANIC CARBON IN WATER ANALYSIS

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	DATE SAMPLE RECEIVED	DATE ANALYSIS COMPLETED
1.	ACSGWMW19-09944711		06/11/99	06/30/99
2.	ACSGWMW45-09944740		06/11/99	06/30/99

ORTHOPHOSPHATE ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	RESULT (mg/L)	REPORTING LIMIT (mg/L)
1.	ACSGWMW19-09	944711	< 0.02	0.02
2.	ACSGWMW45-09	944740	0.81	0.02

Reviewed by/ID#: Joe Bessile 12381 Date: 7/21/09

AMMONIA ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	RESULT (mg/L)	REPORTING LIMIT (mg/L)
1.	ACSGWMW19-09	944711	41.5	2.0
2.	ACSGWMW45-09	944740	1.0	0.2

Reviewed by/ID#: Joe Bauch 1238 Date: 7/21/89

NITRATE/NITRITE ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	RESULT (mg/L)	REPORTING LIMIT (mg/L)
1.	ACSGWMW19-09	944711	0.16	0.05
2.	ACSGWMW45-09	944740	0.14	0.05

Reviewed by/ID#: Joe Beale 12381 Date: 7/21/99

SULFATE ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	RESULT (mg/L)	REPORTING LIMIT (mg/L)
1.	ACSGWMW19-09	944711	< 5.0	5.0
2.	ACSGWMW45-09	944740	< 5.0	5.0

Reviewed by/ID#: Joe Beasley / 2381 Date: 7/21/99

TOTAL KJELDAHL NITROGEN ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	RESULT (mg/L)	REPORTING LIMIT (mg/L)
1.	ACSGWMW19-09	944711	44.9	2.0
2.	ACSGWMW45-09	944740	1.6	0.2

Reviewed by/ID#: Joe Beale / 2381 Date: 7/21/99

TOTAL ORGANIC CARBON IN WATER ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	RESULT (mg/L)	REPORTING LIMIT (mg/L)
1.	ACSGWMW19-09	944711	32.4	1.0
2.	ACSGWMW45-09	944740	7.1	1.0

Reviewed by/ID#: Joe Bescile 12381 Date: 7/21/99

NITRATE/NITRITE ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	RESULT (mg/L)	REPORTING LIMIT (mg/L)
1.	MW18-09	944468	10.4	0.50
2.	MW38-09	944496	0.18	0.05
3.	MW39-09	944515	0.17	0.05
4.	MW40-09	944518	0.59	0.05
5.	ACSGWMW41-09	944739	0.22	0.05

Reviewed by/ID#: Joe Basile / 2381 Date: 7/21/99

AMMONIA ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	RESULT (mg/L)	REPORTING LIMIT (mg/L)
1.	MW18-09	944468	< 0.2	0.2
2.	MW38-09	944496	< 0.2	0.2
3.	MW39-09	944515	2.9	0.2
4.	MW40-09	944518	< 0.2	0.2
5.	ACSGWMW41-09	944739	< 0.2	0.2

Reviewed by/ID#: Joe Boscio 12381 Date: 7/21/99

SU..ATE ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	RESULT (mg/L)	REPORTING LIMIT (mg/L)
1.	MW18-09	944468	46.7	10.0
2.	MW38-09	944496	25.6	5.0
3.	MW39-09	944515	26.2	5.0
4.	MW40-09	944518	31.9	5.0
5.	ACSGWMW41-09	944739	36.6	5.0

Reviewed by/ID#: Joe Bazile 12381 Date: 7/21/99

TOTAL KJELDAHL NITROGEN ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	RESULT (mg/L)	REPORTING LIMIT (mg/L)
1.	MW18-09	944468	0.4	0.2
2.	MW38-09	944496	0.7	0.2
3.	MW39-09	944515	3.5	0.2
4.	MW40-09	944518	0.3	0.2
5.	ACSGWMW41-09	944739	< 0.2	0.2

Reviewed by/ID#: Joe Brock / 2381 Date: 7/21/09

TOTAL ORGANIC CARBON IN WATER ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	RESULT (mg/L)	REPORTING LIMIT (mg/L)
1.	MW18-09	944468	3.2	1.0
2.	MW38-09	944496	13.0	1.0
3.	MW39-09	944515	7.1	1.0
4.	MW40-09	944518	6.0	1.0
5.	ACSGWMW41-09	944739	2.1	1.0

Reviewed by/ID#: Joe Beach / 2381 Date: 7/21/99

ANALYTICAL REPORT OF DATA - CASE # 34200/00007

SUBMITTED TO:
Ms. Judith Kinch
Montgomery Watson
2100 Corporate Drive
Addison, IL 60101

LABORATORY CHRONICLE - ORTHOPHOSPHATE ANALYSIS

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	DATE SAMPLE RECEIVED	DATE ANALYSIS COMPLETED
1.	MW48-09R	945984	06/17/99	06/18/99
2.	MW48-99	946003	06/17/99	06/18/99

ANALYTICAL REPORT OF DATA - CASE # 34200/00007

SUBMITTED TO:
Ms. Judith Kinch
Montgomery Watson
2100 Corporate Drive
Addison, IL 60101

LABORATORY CHRONICLE - NITRATE/NITRITE ANALYSIS

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	DATE SAMPLE RECEIVED	DATE ANALYSIS COMPLETED
1.	MW48-09R	945984	06/17/99	06/28/99
2.	MW48-99	946003	06/17/99	06/28/99

ANALYTICAL REPORT OF DATA - CASE # 34200/00007

SUBMITTED TO:
Ms. Judith Kinch
Montgomery Watson
2100 Corporate Drive
Addison, IL 60101

LABORATORY CHRONICLE - SULFATE ANALYSIS

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	DATE SAMPLE RECEIVED	DATE ANALYSIS COMPLETED
1.	MW48-09R	945984	06/17/99	06/25/99
2.	MW48-99	946003	06/17/99	06/25/99

ANALYTICAL REPORT OF DATA - CASE # 34200/00007

SUBMITTED TO:
Ms. Judith Kinch
Montgomery Watson
2100 Corporate Drive
Addison, IL 60101

LABORATORY CHRONICLE - TOTAL KJELDAHL NITROGEN ANALYSIS

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	DATE SAMPLE RECEIVED	DATE EXTRACTION COMPLETED	DATE ANALYSIS COMPLETED
1.	MW48-09R	945984	06/17/99	07/08/99	07/08/99
2.	MW48-99	946003	06/17/99	07/08/99	07/08/99

ANALYTICAL REPORT OF DATA - CASE # 34200/00007

SUBMITTED TO:
Ms. Judith Kinch
Montgomery Watson
2100 Corporate Drive
Addison, IL 60101

LABORATORY CHRONICLE - AMMONIA ANALYSIS

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	DATE SAMPLE RECEIVED	DATE ANALYSIS COMPLETED
1.	MW48-09R	945984	06/17/99	06/22/99
2.	MW48-99	946003	06/17/99	06/22/99

ANALYTICAL REPORT OF DATA - CASE # 34200/00007

SUBMITTED TO:
Ms. Judith Kinch
Montgomery Watson
2100 Corporate Drive
Addison, IL 60101

LABORATORY CHRONICLE - TOTAL ORGANIC CARBON IN WATER ANALYSIS

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	DATE SAMPLE RECEIVED	DATE ANALYSIS COMPLETED
1.	MW48-09R	945984	06/17/99	06/30/99
2.	MW48-99	946003	06/17/99	06/30/99

ORTHOPHOSPHATE ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	RESULT (mg/L)	REPORTING LIMIT (mg/L)
1.	MW48-09R	945984	0.55	0.02
2.	MW48-99	946003	0.50	0.02

Reviewed by/ID#: Joe Bacik 12381 Date: 7/20/99

NITRATE/NITRITE ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	RESULT (mg/L)	REPORTING LIMIT (mg/L)
1.	MW48-09R	945984	0.14	0.05
2.	MW48-99	946003	0.12	0.05

Reviewed by/ID#: Joe Bacle 1238/ Date: 7/29/99

SULFATE ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	RESULT (mg/L)	REPORTING LIMIT (mg/L)
1.	MW48-09R	945984	8.0	5.0
2.	MW48-99	946003	9.1	5.0

Reviewed by/ID#: Joe Bracle 1381 Date: 7/20/99

APPENDIX D

VALIDATION NARRATIVE AND LABORATORY REPORTS FROM LOWER AQUIFER

VALIDATION NARRATIVE

Project:	ACS – quarterly GW sampling	**Analysis:**	VOCs
Number:	1252042	**Matrix:**	Water
Validated by:	**TJW**	**Date:**	8/18/99
		SDG:	00002

This narrative summarizes the results of the data validation of twenty groundwater samples from the American Chemical Service (ACS) site. The quarterly groundwater monitoring samples were analyzed by CompuChem for volatile organic compounds (VOCs) following Contract Laboratory Program (CLP) procedures. Data validation was performed using the *USEPA Contract Laboratory Program National Functional Guidelines of Organic Analysis Review (February 1994).* Based on the data validation, the data are valid as qualified and are acceptable for use in site evaluation. The following summarizes the results of the data validation. Please refer to Table 1-2 for a summary of qualified data.

Holding Time: All samples were analyzed within the acceptable holding times.

Instrument Performance: All instrument performance criteria were met.

Calibration: Acetone had a high percent recovery (%R) and percent relative standard deviation (%RSD) in the initial calibration. Acetone is a typical "poor responder" and no data are qualified.

In the continuing calibration (CCAL) on 6/22/99 (20: 57) 2-Butanone, 4-methyl-2-pentanone, and 2-Hexanone had percent differences (%D) greater than acceptable quality control (QC) limits. These three compounds are typical poor responders. The only sample/compound with positive results was FB01-09 / 2-Butanone.

In the CCAL on 6/23/99 (19:24), 2-Butanone, 2-Hexanaone, and 4-methyl-2-pentanone had %D outside QC limits. These three compounds are also typical poor responders. The only positive reslut is for 2-Hexanone in MW48-09DL.

Due to the nature of the compounds ("typical poor responders"), no data are qualified based on the calibrations.

Blanks: Acetone concentrations in 14 samples are estimated due to detection in the method blank. Additionally, 2-Butanone and 2-Hexanone were detected in method blanks The associated positive results are flagged "J," and are listed in Table 1-2.

Both trip blanks had positive results for methylene chloride (4 ug/L) and Acetone (3 ug/L). Positive results for methylene chloride below 20 ug/L are estimated and flagged "J."

The field blank (FB01-09) had positive results for methylene chloride, acetone, chloroform, and 2-butanone. Acetone and 2-butanone were detected in the method blanks and no additional qualifications for these compounds in the field blank are necessary. Methylene chloride is a common laboratory contaminant and positive results have already been estimated and flagged "J" by the laboratory. Chloroform was present in the field blank at 1 ug/L. No positive results for chloroform are reported, and no data are qualified.

Surrogates: All surrogate compounds met the required QC acceptance criteria.

Matrix Spikes: All matrix spike and matrix spike duplicates met the required QC acceptance criteria.

Field duplicates: Methylene chloride and acetone were the only detected compounds in the field duplicates (MW44-09 and MW44-99). The relative percent differences (RPDs) were above the acceptable limits. However, due to detected concentrations in the blanks (see discussion above) and the nature of the compounds (common laboratory contaminants), no data are qualified due to field duplicate RPDs.

Internal Standards: Internal standard areas and retention times were within acceptable QC limits.

Compound Identification: VOC target compound qualitative identification criteria, including relative retention times and mass spectra criteria were acceptable.

System Performance: VOC system performance resolution and peak shape was acceptable.

Sample Results: The overall data quality of the laboratory was acceptable. It appears there may be some common background laboratory contamination (i.e. methylene chloride and acetone). However, the background contamination is not expected to influence data usability.

Table 1-2
Summary of Qualified VOC Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration (µg/L)	Qualifiers	Reason
MW48-09DL	2-hexanone		J	CCAL % D was outside QC limits, and compound was detected in the method blank.
FB01-09	Methylene chloride		J	Detection of compound in trip blank.
	2-butanone		J	CCAL %D was outside QC limits, and compound detected in method blank.
	acetone		J	Compound detected in the method blank.
TB01-09	Acetone		J	Compound detected in the method blank.
MW18-09	Acetone		J	Compound detected in the method blank.
	methylene chloride		J	Compound detected in the trip blank.
MW38-09	Acetone		J	Compound detected in the method blank.
	methylene chloride		J	Compound detected in the trip blank.
MW39-09	Acetone		J	Compound detected in the method blank.
	methylene chloride		J	Compound detected in the trip blank.
MW28-09	Acetone		J	Compound detected in the method blank.
	methylene chloride		J	Compound detected in the trip blank.
MW31-09	Acetone		J	Compound detected in the method blank.
	methylene chloride		J	Compound detected in the trip blank.
MW32-09	Acetone		J	Compound detected in the method blank.
	methylene chloride		J	Compound detected in the trip blank.
MW54R-09	Acetone		J	Compound detected in the method blank.
	methylene chloride		J	Compound detected in the trip blank.
MW55-09	Acetone		J	Compound detected in the method blank.
	methylene chloride		J	Compound detected in the trip blank.
MW44-09	Acetone		J	Compound detected in the method blank, and duplicate RPDs above QC limits.
	methylene chloride		J	Compound detected in the trip blank, and duplicate RPDs above QC limits.
MW4D-09	Acetone		J	Compound detected in the method blank.
	methylene chloride		J	Compound detected in the trip blank.
MW-42-09	Acetone		J	Compound detected in the method blank.
	methylene chloride		J	Compound detected in the trip blank.

Table 1-2
Summary of Qualified VOC Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration (µg/L)	Qualifiers	Reason
MW41-09	Methylene chloride		J	Compound detected in the trip blank.
MW44-99	Acetone		J	Compound detected in the method blank, and duplicate RPDs above QC limits.
	methylene chloride		J	Compound detected in the trip blank, and duplicate RPDs above QC limits.
MW08-09	Methylene chloride		J	Compound detected in the trip blank.
MW48-09	Methylene chloride		J	Compound detected in the trip blank.

J Data are considered estimated

VALIDATION NARRATIVE

Project:	ACS – quarterly GW sampling	**Analysis:**	SVOCs
Number:	1252042	**Matrix:**	Water
Validated by:	**TJW**	**Date:**	8/18/99
		SDG:	00002

This narrative summarizes the results of the data validation of sixteen groundwater samples from the American Chemical Service (ACS) site. The quarterly groundwater monitoring samples were analyzed by CompuChem for semi-volatile organic compounds (SVOCs) following Contract Laboratory Program (CLP) procedures. Data validation was performed using the *USEPA Contract Laboratory Program National Functional Guidelines of Organic Analysis Review (February 1994).* Based on the data validation, the data are valid as qualified and are acceptable for use in site evaluation. The following summarizes the results of the data validation. Please refer to Table 1-1 for a summary of qualified data.

Holding Time: Eleven of the sixteen samples were originally extracted within holding times. Due to poor surrogate recoveries and internal standard responses in the method blank extracted with these samples, these eleven samples had to be re-extracted. The re-extraction was performed outside of holding time requirements. The re-extracted data is technically more accurate and will be considered the proper results with qualifications for holding times. The remaining five samples were extracted and analyzed within acceptable holding times.

Positive results for the re-extracted data is estimated and flagged "J." Non-detected results for the re-extracted data is estimated "UJ."

Instrument Performance: All SVOC instrument tuning criteria were acceptable.

Calibration: In the initial calibration related to samples MW48-09 and MW38-09, four compounds had percent relative standard deviations (%RSD) above the acceptable limit. No positive results were reported for these four compounds, and no data are qualified.

In the continuing calibrations several compounds were reported with percent differences (%D) above the acceptable limits. None of the compounds had positive results in the affected samples, and no data are qualified.

Blanks: One internal standard (Perylene-d12) and five surrogates were outside acceptance limits in the method blank (lab ID: SBLKDS) associated with the following ten samples: MW40-09, MW31-09, MW32-09, MW41-09, MW42-09, MW44-09, MW44-99, MW54-09, MW55-09, and MW08-09. These samples were re-extracted and a new method blank was re-analyzed. One compound, bis (2-Ethylhexyl) phthalate, was detected at a concentration of 1 ug/L in the method blank associated with the re-extracted samples. No positive results for this compound were reported, and no data are qualified.

One compound, Di-n-butylphthalate, was detected at a concentration of 1 ug/L in the method blank associated with the following samples: MW38-09RE, MW18-09RE, MW48-09 (diluted and undiluted), FB01-09, and MW28-09. No positive results for this compound were reported, and no data are qualified.

One compound, bis (2-Ethylhexyl) phthalate, was detected at a concentration of 1 ug/L in the method blank associated with sample MW39-09RE. No positive results for this compound were reported, and no data are qualified.

In other method blanks, several tentatively identified compounds (TICs) were identified. No data is qualified due to TICs in the method blanks.

The field blank (FB01-09) had a positive result for bis (2-Ethylhexyl) phthalate at a concentration of 2 ug/L. Samples results for this compound less than 10 ug/L are estimated and flagged "J."

Surrogates: All surrogate recoveries for all samples and blanks (re-extracted when applicable) are within quality control (QC) limits with the exception of two surrogates in MW38-09RE. One surrogate relates to the base/neutral SVOCs, and one surrogate relates to the acid SVOCs. No data in this sample is qualified because at least two surrogates from each fraction of SVOCs must be outside QC limits in order to qualify data.

Matrix Spikes: Sample MW42-09 was submitted with extra volume for use as the matrix spike (MS) and matrix spike duplicate (MSD). The MS/MSD recoveries for 4-Nitrophenol and Pentachlorophenol were high. According to the validation guidance document, data is not qualified on MS/MSD data alone.

Field duplicates: In the field duplicates (MW44-09RE/MW44-99RE), the only compound detected was bis (2-Ethylhexyl) phthalate in MW44-09RE. The relative percent difference (RPD) is approximately 200%, which is above acceptable limits. The detected compound is considered estimated, and is flagged "J."

Internal Standards: Responses from internal standards in two samples require that some data be qualified and rejected. In sample MW38-09RE, the response for internal standard Perylene-d12 is below 10% of the continuing calibration response. Compounds associated with Perylene-d12 in MW38-09RE are rejected. Additionally in the analysis of MW38-09RE, the response for the internal standard Acenaphthene-d10 is between 10% and 50% of the continuing calibration response. Compounds associated with Acenaphthene-d10 in MW38-09RE are qualified as estimated and flagged "J" for positive results and "UJ" for non-detected results.

In the analysis of sample MW18-09RE, the response for internal standard Perylene-d12 is between 10% and 50% of the continuing calibration response. Compounds associated with Perylene-d12 in MW18-09 are qualified as estimated and flagged "J" for detected results and "UJ" for non-detected results.

Compound Identification: SVOC target compound qualitative identification criteria, including relative retention times and mass spectra criteria were acceptable.

System Performance: SVOC system performance resolution and peak shape was acceptable.

Sample Results: Generally, data quality by the laboratory was acceptable. Although QC problems encountered during the validation procedures required some data to be rejected, these qualifications are not expected to drastically influence data usability. QC issues discovered during validation of this data will be addressed with the laboratory and specific corrective actions will be outlined to reduce the likelihood of such QC issues in the future.

Table 1-1
Summary of Qualified SVOC Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration (µg/L)	Qualifiers	Reason
MW38-09RE	2,4,6-Trichlorophenol	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	2,4,5-Trichlorophenol	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	2-Chloroaphthalene	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	2-Nirtoaniline	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	Acenaphthylene	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	2,6-Dinitrotoulene	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	3-Nitroaniline	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	Acenaphthene	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	2,4-Dinitrophenol	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	4-Nitrophenol	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	Dibenzofuran	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	2,4-Dinitrotoulene	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	Diethylphthalate	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	4-Chlorophenyl-phenylether	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	Fluorene	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	4-Nitroaniline	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	Benzo(b)fluoranthene	<10	R	Internal standard (Perylene-d12) below 10% of the 12 hour standard
MW38-09RE	Benzo(k)fluoranthene	<10	R	Internal standard (Perylene-d12) below 10% of the 12 hour standard
MW38-09RE	Benzo (a) pyrene	<10	R	Internal standard (Perylene-d12) below 10% of the 12 hour standard
MW38-09RE	Dibenzo (a,h) anthracene	<10	R	Internal standard (Perylene-d12) below 10% of the 12 hour standard
MW38-09RE	Benzo (g,h,i) perylene	<10	R	Internal standard (Perylene-d12) below 10% of the 12 hour standard
MW18-09RE	Benzo(b)fluoranthene	<10	UJ	Internal standard (Perylene-d12) between 10% and 50% of the 12 hour standard
MW18-09RE	Benzo(k)fluoranthene	<10	UJ	Internal standard (Perylene-d12) between 10% and 50% of the 12 hour standard
MW18-09RE	Benzo (a) pyrene	<10	UJ	Internal standard (Perylene-d12) between 10% and 50% of the 12 hour standard
MW18-09RE	Dibenzo (a,h) anthracene	<10	UJ	Internal standard (Perylene-d12) between 10% and 50% of the 12 hour standard
MW18-09RE	Benzo (g,h,i) perylene	<10	UJ	Internal standard (Perylene-d12) between 10% and 50% of the 12 hour standard
FB01-09	Bis (2-Ethylhexyl) phthalate	2	J	Below the reporting limit. Therefore, the concentration is estimated.
MW44-09RE	Bis (2-Ethylhexyl) phthalate	6	J	Below the reporting limit, present in the field blank, Duplicate RPDs are above

Table 1-1
Summary of Qualified SVOC Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration (µg/L)	Qualifiers	Reason
				acceptance limits, and holding time was exceeded. Therefore, the concentration is estimated.
MW42-09RE	Bis (2-Ethylhexyl) phthalate	2	J	Below the reporting limit, present in the field blank, and holding time was exceeded. Therefore, the concentration is estimated.
MW55-09RE	Bis (2-Ethylhexyl) phthalate	2	J	Below the reporting limit, present in the field blank, and holding time was exceeded. Therefore, the concentration is estimated.
MW32-09RE	Bis (2-Ethylhexyl) phthalate	2	J	Below the reporting limit, present in the field blank, and holding time was exceeded. Therefore, the concentration is estimated.
MW31-09RE	Bis (2-Ethylhexyl) phthalate	2	J	Below the reporting limit, present in the field blank, and holding time was exceeded. Therefore, the concentration is estimated.
MW40-09RE	Bis (2-Ethylhexyl) phthalate	1	J	Below the reporting limit, present in the field blank, and holding time was exceeded. Therefore, the concentration is estimated.
MW28-09	Bis (2-Ethylhexyl) phthalate	2	J	Below the reporting limit and present in the field blank. Therefore, the concentration is estimated.

The following is a list of samples which are qualified due to re-extraction outside holding times. No positive results were reported, other than those listed above. Therefore, all results are qualified as estimated and flagged "UJ."

MW40-09RE	MW55-09RE
MW31-09RE	MW44-99RE
MW39-09RE	MW54-09RE
MW32-09RE	MW44-09RE
MW41-09RE	MW42-09RE
MW08-09RE	

J Data are considered estimated
UJ The compound was analyzed for, but not detected. The reported detection limit is estimated because quality control criteria were not met.
R The sample results are rejected (analyte may or may not be present) due to gross deficiencies in quality control criteria. Any reported value is unusable.
Sample Ids with an "RE" at the end are the results for the re-extracted analyses.

VALIDATION NARRATIVE

Project:	ACS – quarterly GW sampling	**Analysis:**	Pest/PCBs
Number:	34100	**Matrix:**	Water
Validated by:	**JFW**	**Date:**	10/11/99
		SDG:	00002

This narrative summarizes the results of the data validation of sisxteen groundwater samples from the American Chemical Service (ACS) site. The quarterly groundwater monitoring samples were analyzed by CompuChem for pesticides and polychlorinated biphenyls (PCBs) following Contract Laboratory Program (CLP) procedures. Data validation was performed using the *USEPA Contract Laboratory Program National Functional Guidelines of Organic Analysis Review (February 1994)*. Based on the data validation, the data are valid as qualified and are acceptable for use in site evaluation. The following summarizes the results of the data validation. Please refer to Table 1-1 for a summary of qualified data.

Holding Time: All samples were analyzed within specified holding times.

Instrument Performance: Not applicable.

Calibration: Initial and continuing calibration criteria were met for all analytical sequences.

Blanks: Methods blanks, trip blanks and field blanks were free of target analytes.

Surrogates: All surrogate recoveries for all samples and blanks were within quality control (QC) limits with the exception of tetrachlorometaxylene in MW48-09 and decachlorobiphenyl in FB01-09. Sample ID MW48-09 was not qualified since surrogate recovery was above acceptance limits and the sample was free of target analytes. All analytes in sample ID FB01-09 were qualified with UJ since reporting limits are estimates due to the low surrogate recovery.

Matrix Spikes: Sample ID ACSGWMW44-09 was selected for MS/MSD analyses. All percent recoveries were within acceptance limits.

Field Duplicate: The field duplicate pair, ACSGWMW44-09/ACSGWMW44-99 had no detectable target analytes above the reporting limit.

Internal Standards: Not applicable.

Compound Identification: Pesticides were qualitatively confirmed using second column GC. However, the percent difference between the primary column and secondary column concentrations exceeded 25%. Samples are qualified with a P to denote the lack of quantitative confirmation.

Samples were free of PCBs.

System Performance: GC system performance resolution and peak shape was acceptable.

Sample Results: Laboratory data quality was acceptable. Some pesticides were qualified as estimates since the results were below the reporting limit.

Table 1-1
Summary of Qualified Pesticide and PCB Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration (µg/L)	Qualifiers	Reason
ACSGWMW31-09	Beta-BHC	0.014	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
ACSGWMW31-09	Delta-BHC	0.0013	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
ACSGWMW44-09	Aldrin	0.0018	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
ACSGWMW44-09	Heptachlor epoxide	0.0011	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
ACSGWMW44-09	Gamma-Chlordane	0.0011	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
ACSGWMW44-99	Heptachlor	0.0023	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
ACSGWMW55-09	Beta-BHC	0.016	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
ACSGWMW55-09	Delta-BHC	0.0023	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW18-09	Methoxychlor	0.01	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW28-09	Alpha-chlordane	0.0025	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW38-09	Delta-BHC	0.0056	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW38-09	Heptachlor	0.0083	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW38-09	Dieldrin	0.0074	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW38-09	4,4'-DDE	0.0086	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.

Table 1-1
Summary of Qualified Pesticide and PCB Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration (µg/L)	Qualifiers	Reason
MW38-09	Methoxychlor	0.11	J	Below the reporting limit. Therefore, the concentration is estimated.
MW38-09	Endrin	0.0068	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW38-09	Endosulfan sulfate	0.027	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW38-09	4,4'-DDT	0.068	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW38-09	Endrin Ketone	0.0064	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW38-09	Gamma-chlordane	0.0083	J	Below the reporting limit. Therefore, the concentration is estimated.
MW48-09	Alpha-BHC	0.011	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW48-09	Heptachlor	0.0018	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
FB01-09	All Pest/PCBs	ND	UJ	Surrogate percent recovery below acceptance limits. Therefore, reporting limits are estimates.

J Data are considered estimated
P Greater than 25% difference for detected concentrations between two columns.
UJ The compound was analyzed for, but not detected. The reported detection limit is estimated because quality control criteria were not met.

VALIDATION NARRATIVE

Project:	ACS – quarterly GW sampling	**Analysis:**	Metals
Number:	1252042	**Matrix:**	Water
Validated by:	**TJW**	**Date:**	8/2099
		SDG:	00002

This narrative summarizes the results of the data validation of twenty groundwater samples from the American Chemical Service (ACS) site. The quarterly groundwater monitoring samples were analyzed by CompuChem for metals following Contract Laboratory Program (CLP) procedures. Data validation was performed using the *USEPA Contract Laboratory Program National Functional Guidelines of Inorganic Analysis Review (February 1994)*. Based on the data validation, the data are valid as qualified and are acceptable for use in site evaluation. The following summarizes the results of the data validation. Please refer to Table 1-3 for a summary of qualified data.

Holding Time: All samples were analyzed within the acceptable holding times.

Calibration: Initial and continuing calibrations met the acceptable quality control limits.

Laboratory Control Sample: The laboratory control sample met acceptable quality control limits.

Blanks: Some target metals were detected in the method and calibration blanks. Positive results less than 5 times the concentration of the target metal in the blank are considered not detected, and they are flagged "U."

Matrix Spikes: All matrix spike and matrix spike duplicates met the required quality control acceptance criteria.

Field duplicates: Several compounds detected in the field duplicate samples (MW44-09/MW44-99) had relative percent differences (RPDs) greater than the acceptable limits. Positive results for these compounds are considered estimated, and they are flagged "J."

ICP/AA Quality Control: A serial dilution was performed on sample MW18-09. The serial dilution percent differences for several compounds were above the 10% acceptance limit. However, no positive results for these compounds were reported, and no data are qualified.

Interference check sample recoveries were within the acceptable limits.

The method of standard additions and post-digestion spikes were not required.

Compound Quantitation: Metals target compound qualitative identification criteria were acceptable.

Sample Results: The overall data quality of the laboratory was acceptable. The laboratory narrative indicates that there was a physical or chemical interference in the analyses for potassium. Results for potassium are estimated and flagged "J."

Table 1-3
Summary of Qualified Metals Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration (µg/L)	Qualifiers	Reason
ATMW4D-09	Aluminum	296	U	The compound was detected in the method blank (MB).
	Beryllium	0.29	U	The compound was detected in the method blank (MB).
	Cobalt	0.97	U	The compound was detected in the continuing calibration blank (CCB).
	Copper	2.7	U	The compound was detected in the CCB.
	Lead	2.0	U	The compound was detected in the CCB.
	Nickel	10.4	U	The compound was detected in the CCB.
	Cyanide	4.7	U	The compound was detected in the CCB.
MW12-09	Lead	1.6	U	The compound was detected in the CCB.
MW31-09	Aluminum	34.5	U	The compound was detected in the CCB.
	Arsenic	3.5	U	The compound was detected in the CCB.
	Cobalt	1.4	U	The compound was detected in the CCB.
	Lead	2.6	U	The compound was detected in the CCB.
	Nickel	8.2	U	The compound was detected in the CCB.
	Zinc	1.3	U	The compound was detected in the CCB.
MW32-09	Aluminum	27.7	U	The compound was detected in the CCB.
	Beryllium	0.23	U	The compound was detected in the CCB.
	Cobalt	0.92	U	The compound was detected in the CCB.
	Copper	1.7	U	The compound was detected in the CCB.
	Lead	1.2	U	The compound was detected in the CCB.
	Nickel	0.57	U	The compound was detected in the CCB.
MW40-09	Lead	3.4	U	The compound was detected in the CCB.
MW41-09	Aluminum	99.2	U	The compound was detected in the CCB.
	Antimony	1.4	U	The compound was detected in the method blank (MB).
	Cobalt	1.7	U	The compound was detected in the CCB.
	Copper	4.2	U	The compound was detected in the CCB.
	Lead	1.3	U	The compound was detected in the CCB.
	Nickel	4.7	U	The compound was detected in the CCB.
MW42-09	Arsenic	2.3	U	The compound was detected in the method blank (MB).

Table 1-3
Summary of Qualified Metals Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration (µg/L)	Qualifiers	Reason
	Cobalt	1.4	U	The compound was detected in the CCB.
	Copper	1.7	U	The compound was detected in the CCB.
MW44-09	Arsenic	7.3	U	The compound was detected in the method blank (MB).
	Cobalt	0.51	U	The compound was detected in the CCB.
	Copper	2.3	U	The compound was detected in the CCB.
	Iron	1700	J	Duplicate RPD >20%.
	Nickel	3.1	U	The compound was detected in the CCB.
MW44-99	Aluminum	38.9	U	The compound was detected in the CCB.
	Arsenic	17.2	J	Duplicate RPD >20%.
	Beryllium	0.21	U	The compound was detected in the CCB.
	Chromium	48.2	J	Duplicate RPD >20%.
	Cobalt	0.43	U	The compound was detected in the CCB.
	Copper	4.1	U	The compound was detected in the CCB.
	Iron	5810	J	Duplicate RPD >20%.
	Lead	1.8	U	The compound was detected in the CCB.
	Nickel	5.4	U	The compound was detected in the CCB.
MW54R-09	Aluminum	63.8	U	The compound was detected in the CCB.
	Arsenic	1.8	U	The compound was detected in the CCB.
	Cobalt	1.0	U	The compound was detected in the CCB.
	Copper	1.7	U	The compound was detected in the CCB.
	Lead	2.0	U	The compound was detected in the CCB.
	Nickel	3.2	U	The compound was detected in the CCB.
MW55-09	Aluminum	182	U	The compound was detected in the CCB.
	Arsenic	2.1	U	The compound was detected in the CCB.
	Beryllium	0.26	U	The compound was detected in the CCB.
	Cobalt	1.8	U	The compound was detected in the CCB.
	Copper	5.9	U	The compound was detected in the CCB.
	Lead	2.0	U	The compound was detected in the CCB.
MW8-09	Aluminum	88.5	U	The compound was detected in the CCB.

Table 1-3
Summary of Qualified Metals Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration (µg/L)	Qualifiers	Reason
	Beryllium	0.26	U	The compound was detected in the CCB.
	Cobalt	1.1	U	The compound was detected in the CCB.
	Copper	1.7	U	The compound was detected in the CCB.
	Lead	1.5	U	The compound was detected in the CCB.
	Nickel	3.2	U	The compound was detected in the method blank (MB).
	Zinc	0.97	U	The compound was detected in the CCB.
FB01-09	Aluminum	27.2	U	The compound was detected in the CCB.
	Antimony	1.3	U	The compound was detected in the CCB.
	Beryllium	0.27	U	The compound was detected in the CCB.
	Calcium	58.4	U	The compound was detected in the CCB.
	Cobalt	0.93	U	The compound was detected in the CCB.
	Copper	0.40	U	The compound was detected in the CCB.
	Iron	22.1	U	The compound was detected in the CCB.
	Lead	1.1	U	The compound was detected in the CCB.
	Zinc	2.3	U	The compound was detected in the CCB.
MW18-09	Aluminum	13.3	U	The compound was detected in the CCB.
	Antimony	3.3	U	The compound was detected in the CCB.
	Cadmium	0.94	U	The compound was detected in the CCB.
	Cobalt	2.5	U	The compound was detected in the CCB.
	Copper	3.2	U	The compound was detected in the CCB.
	Vanadium	1.1	U	The compound was detected in the CCB.
MW28-09	Aluminum	265	U	The compound was detected in the CCB.
	Cadmium	0.60	U	The compound was detected in the CCB.
	Cobalt	3.1	U	The compound was detected in the CCB.
	Copper	12.9	U	The compound was detected in the CCB.
	Lead	4.2	U	The compound was detected in the CCB.
	Zinc	4.6	U	The compound was detected in the CCB.
MW38-09	Aluminum	68.4	U	The compound was detected in the CCB.
	Antimony	1.3	U	The compound was detected in the CCB.

Table 1-3
Summary of Qualified Metals Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration (µg/L)	Qualifiers	Reason
	Cadmium	0.45	U	The compound was detected in the CCB.
	Cobalt	5.4	U	The compound was detected in the CCB.
	Copper	13.4	U	The compound was detected in the CCB.
	Lead	1.3	U	The compound was detected in the CCB.
	Nickel	11.7	U	The compound was detected in the CCB.
	Zinc	21.0	U	The compound was detected in the CCB.
MW39-09	Aluminum	25.0	U	The compound was detected in the CCB.
	Beryllium	0.12	U	The compound was detected in the CCB.
	Cadmium	0.74	U	The compound was detected in the CCB.
	Cobalt	1.2	U	The compound was detected in the CCB.
	Copper	0.63	U	The compound was detected in the CCB.
	Lead	1.0	U	The compound was detected in the CCB.
	Vanadium	0.48	U	The compound was detected in the CCB.
MW48-09	Aluminum	119	U	The compound was detected in the CCB.
	Antimony	1.8	U	The compound was detected in the CCB.
	Arsenic	4.0	U	The compound was detected in the CCB.
	Beryllium	0.13	U	The compound was detected in the CCB.
	Cobalt	1.9	U	The compound was detected in the CCB.
	Copper	2.3	U	The compound was detected in the CCB.
	Vanadium	2.0	U	The compound was detected in the CCB.
	Zinc	4.3	U	The compound was detected in the CCB.

J Data are considered estimated
U The analyte is not detected in the sample.

MEMORANDUM

MONTGOMERY WATSON

To:	Trisha Woolslayer, MW	**Date:**	August 24, 1999
From:	Gilbert Dimidjian, MW	**Job No.:**	1252042
Subject:	Data Validation for American Chemical Service (ACS). Griffith, Indiana. June 1999	**SDG:**	003

INTRODUCTION

The following text is based on the validation of water samples collected at American Chemical Service, Inc. in June of 1999.

Nine water samples and two field quality assurance samples were analyzed by CompuChem Laboratories, Cary, North Carolina for the following parameters:

- VOA's by CLP – OLM 3.0
- SVOA's by CLP – OLM 3.0
- Pesticides/PCB's by CLP – OLM 3.0
- Inorganics by CLP – ILM04.0
- Cyanide by CLP – ILM04.0

Data validation was conducted in accordance with procedures specified in *Pre-Design Activities Quality Assurance Project Plan (MW, 1995), National Functional Guidelines for Organic Data Review (USEPA, 1994a), and National Functional Guidelines for Inorganic Data Review (USEPA, 1994b).*

The following field quality control samples were collected during the June 1999 sampling round:

- Two field duplicates: M4S-99 duplicate of M4S-09; and MW06-99 duplicate of MW06-09.

This memorandum contains a narrative summarizing the data quality objectives specified in the work plan, and provides a table of qualified data (Table 1-1 and 1-2) and supporting validation documentation (Attachment A).

SUMMARY

This section describes the quality control parameters reviewed during validation, summarizes the data quality objectives as a result of the validation and provides a summary of the deficiencies and qualification applied. The following paragraphs describe deficiencies that were identified which resulted in qualification of the sample results. Each analysis is separated into sections for clarity.

Volatile Organic Componds

Major Deficiencies: The following paragraphs describe the major deficiencies identified during the validation process.

Holding Time

- Sample MW19-09 was received at a pH of 5, and therefore the sample was required to be analyzed within 7 days. Subsequently, the sample was analyzed 7 days pass the required holding time. All positive results were qualified as an estimate "J" and non-detects were qualified as "UJ".

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

Initial Calibration

- The initial calibration (on 6/20/99; 1249) %RSD for acetone (51.5 percent) were above the control limit of 30 percent. All positive results were qualified as an estimate "J" for acetone.

Continuing Calibration

- The continuing calibration (CS990623B57) for 2-butanone (31.5 percent), 4-methyl-2-pentanone (25.9 percent), and 2-hexanone had a percent difference that exceeded the control limit of ±25 percent. The associated samples were MW50-09, MW19-09, MW45-09, M4S-09, M4S-99, and M15-09. All positive results were qualified as an estimate "J" and non-detects as "UJ".

- The continuing calibration (CS990629A57) for chloromethane (25.9 percent) had a percent difference that exceeded the control limit of ±25 percent. The associated samples were MW14-09, MW09R-09, MW06-99, MW06-09, and MW10C-09. All positive results were qualified as an estimate "J" and non-detects as "UJ".

- The continuing calibration (CS990629B57) for 2-butanone (30.4 percent) and 1,1,2,2-tetrachloroethane (31.3 percent) had a percent difference that exceeded the control limit of ±25 percent. No qualification was required because no samples were associated with this calibration.

Semi-Volatile Organic Compounds

Major Deficiencies: The following paragraphs describe the major deficiencies identified during the validation process.

Holding Time

- Samples MW19-09RE, MW45-09RE, and MW50-09RE were extracted pass holding times (20 days). All positive results were qualified as estimate "J" and non-detects as "UJ". These were reanalysis samples.

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

Initial Calibration

- The initial calibration (on 6/30/99; 2221) %RSD for 2,4-dinitrophenol (36.1 percent) exceeded the control limit of 30 percent. All positive results were qualified as estimate "J" and non-detects as "UJ". The associated samples were MW50-09RE, MW19-09RE, and MW45-09RE.

- The initial calibration (on 7/20/99; 1006) %RSD for 2,4-dinitrophenol (33.6 percent) exceeded the control limit of 30 percent. No qualification was required because no samples were associated with this calibration.

Continuing Calibration

- Continuing calibration HG990622A66 had a percent difference for 1-chloropropane (26.3 percent), nitrobenzene (34.1 percent), 4-nitrophenol (30 percent), pentachlorophenol (38.7 percent), and 3,3-dichlorobenzidine (40.4 percent) that exceeded the control limit of 25 percent. All positive results were qualified as estimate "J" and non-detects "UJ". The associated samples included MW09R-09, MW06-99, MW14-09, MW06-09, and MW10C-09.

- Continuing calibration HG990709A66 had a percent difference for 2-methylphenol (27.1 percent), n-nitroso-di-n-propylamine (27.6 percent), 2,6-dinitrotoluene (26.6 percent), 2,4-dinitrophenol (28.6 percent), and 2,4-dinitrotoluene (31.4 percent) that exceeded the control limit of 25 percent. All positive results were qualified as estimate "J" and non-detects "UJ". The associated samples included MW50-09RE, MW19-09RE, and MW45-09RE.

- Continuing calibration HG990706B70 had a percent difference for 2-methylnaphthalene (26.1 percent), 4-nitroaniline (27.6 percent), carbazole (36.5 percent), and fluoranthene (32.4 percent) that exceeded the control limit of 25 percent. All positive results were qualified as an estimate "J" and non-detects "UJ". The associated samples were M4S-09, M4S-99, and MW15-09.

- Continuing calibration HG990707A70 had a percent difference for pentachlorophenol (36.4 percent), 2-methylphenol (25.5 percent), 4-methylphenol (29.5 percent), nitrobenzene (27.1 percent), hexachlorocyclopentadiene (39.9 percent), and 2,4-dinitrophenol (38.6 percent) that exceeded the control limit of 25 percent. All positive results were qualified as an estimate "J" and non-detects "UJ". The associated sample includes M4S-99DL (dilution).

Samples MW19-09, MW45-09, and MW50-09 were initially extracted within the required holding time, along with a method blank. The method blank was analyzed prior to the samples to determine if all QC criteria and contamination criteria had been met. In the analysis of the blank (SBLKDS), one or more of the internal standards and one or more of the surrogates failed acceptance criteria and many extraneous peaks were observed on the chromatogram. Because the QC criteria failed for this blank, the associated samples were re-extracted with another method blank. The repeat extractions, however, were performed outside of the required holding time. According to the laboratory, the failing responses and recoveries can be attributed to a possible laboratory error during the extraction procedure. The data for the initial and repeat (RE) extracts of the samples were reported by the laboratory. The results were then compared to determine the most representative data in table 1-3. It was determined that the re-analysis results were more representative and, therefore, would be used for reporting and validation purposes.

Pesticides / PCBs

Major Deficiencies: There were no major deficiencies identified during the validation process.

Minor Deficiencies: There were no minor deficiencies identified which required qualification. Please refer to the Data Quality Objectives section for additional comments.

Inorganics / Cyanide

Major Deficiencies: The following paragraphs describe the major deficiencies identified during the validation process.

Holding Time

- Samples MW50-09, MW19-09, MW45-09, M4S-09, M4S-99, MW15-09, MW14-09, MW09R-09, MW06-99, MW-06-09, and MW10C-09 which were analyzed for mercury exceeded the holding time requirement of 28 days from one to five days. All positive results were qualified as "J" and all non-detects as "UJ" with a low bias.

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

Serial Dilution

- The percent difference for potassium (18.5 percent) exceeded the control limit of ±10% in sample MW09R-09L. All positive results were qualified as estimated "J".

Several samples contained detected concentrations of target analytes at concentrations between the instrument detection limit (IDL) and the contract required detection limit (CRDL). These were qualified as "B" by the laboratory, but during the validation process these qualifications were changed to a "J" flag which indicates an estimate. Table 1-2 summarizes the affected samples and analytes.

DATA QUALITY OBJECTIVES

The following is a summary of the data quality objectives that were evaluated during the data validation process.

Reporting Limits: Reporting limits were met for all analyses with the following exception.

- For VOCs: Reporting limits were met with the exception of cases in which dilution was necessary. Original, out-of-calibration range data have been included for confirmation of original detection limits and detections, when available. Sample MW45-09, M4S-09, M4S-99, MW06-99, and MW10C-09 was only analyzed as a dilution due to a high analyte concentration; therefore, no original out of calibration range data was included with this sample package. No data were qualified as a result.

- For SVOCs: Less than the method specified amount of raw sample was used for the extractions of some of the samples. The lower sample volumes resulted in slightly higher detection limits for these samples. The laboratory was contacted and they explained that the volume in the sample bottles they received were short, so they had to compensate and bring it back to 1mL. Original, out-of-calibration range data have been included for confirmation of original detection limits and detections, when available.

Accuracy

Laboratory Control Sample: Validation of the LCS was not performed for the organic analyses because the data was not provided by the laboratory and is not required per OLM 3.0. The LCS for the inorganic analyses were within control limits and analyzed at the correct frequency.

Surrogates: The surrogate results were within laboratory specified limits with the following exceptions.

- For SVOCs: Surrogates nitrobenzene-d5 (115 percent) and 2,4,6-tribromophenol (126 percent) had recoveries above the upper control limit with a high bias. All positive results were qualified as an estimate "J". The associated sample was MW10C-09.

- For Pesticides/PCBs: Surrogate recoveries for TCX exceeded the upper control limits of 30-150 percent. No qualification was required because the high recovery was only present in the 2nd column which indicates co-elution and a high bias. The associated samples were MW06-99 and MW06-09.

Matrix Spike / Matrix Spike Duplicate: The MS/MSD results were within laboratory specified limits with the following exceptions.

- For SVOCs: MS/MSD recoveries exceeded the upper control limits, with a high bias. No qualification was required.

- For Pesticides/PCBs: MS/MSD RPD exceeded the control limits for various compounds, which represented a high bias. MS/MSD recoveries were within control limits and surrogate recoveries were acceptable. No qualification was required.

- For Inorganics / Cyanide: Spike sample MW09R-09S had recoveries for selenium (130 percent) that exceeded the upper control limits. All positive results were qualified as estimated "J".

Precision

Field Duplicates:

- For VOCs: RPDs were calculated for benzene (5.7 percent) and chloromethane (6.5 percent) in field duplicate pair M4S-09 and M4S-99, and for chloromethane (24.7 percent), acetone (96.3 percent), and benzene (28.6 percent) in field duplicate pair MW06-09 and MW06-99.

- For SVOCs: RPDs were calculated for bis(2-chloroethyl) ether (29.6 percent) in field duplicate pair M4S-09 and M4S-99, and for bis(2-chloroethyl) ether (7.4 percent) in field duplicate pair MW06-09 and MW06-99.

- For Pesticides / PCBs: RPDs were calculated for beta-BHC (139.6 percent) in field duplicate pair MW06-09 and MW06-99.

- For Inorganics / Cyanide: RPDs were calculated for barium (22.6 percent), iron (20.9 percent), and sodium (23.6 percent) in field duplicate pair M4S-09 and M4S-99.

There are no qualification requirements for field QC samples exceeding limits.

Laboratory Duplicate Sample: For inorganics / cyanide: Lab duplicate MW09R-09D had RPDs which exceeded the control limit ranges for beryllium, cadmium, and zinc. All positive results were qualified as estimated "J". The associated samples were MW50-09, MW19-09, MW45-09, M4S-09, M4S-99, MW15-09, MW14-09, MW09R-09, MW06-99, MW-06-09, and MW10C-09.

The overall results were acceptable, indicating that sampling and analytical precision objectives were met for the sampling event.

Completeness

The data package was complete for the requested analyses. No results were considered unusable. The completeness was 100 percent, which meets the completeness objective of 95 percent.

Representativeness:

No field blank samples were associated with this SDG.

Comparability:

All data were reported in similar units to facilitate comparison of results within the data packages. Samples arrived at the laboratory at 4°C, which is within the limits of 2-6°C. It should be noted that several samples were analyzed by EPA method CLP-VOA OLM3.0, CLP-SVOA OLM3.0, and CLP-Inorganics OLM 4.0 were analyzed after the recommended holding time. Because of the holding time exceedence, comparability might be affected.

As a result of this evaluation, all data within this SDG for wells at American Chemical Service are of known and acceptable quality in relation to the DQOs of this project. Although significant qualification were required due to holding time violation, the data are considered usable as qualified for the intended purposes. Table 1-1 and 1-2 summarizes the validation and laboratory qualifications for this sampling event.

REFERENCES

Pre-Design Activities Quality Assurance Project Plan, American Chemical Service, Inc. NPL Site, Griffith Indiana (MW, 1995).

National Functional Guidelines for Organic Data Review (USEPA, 1994a).

National Functional Guidelines for Inorganic Data Review (USEPA, 1994b).

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
944694	MW50-09 (VOC)	2-Butanone	10	µg/L	UJ	High	Continuing Calibration >CL
		4-Methyl-2-Pentanone	10	µg/L	UJ	High	Continuing Calibration >CL
		2-Hexanone	10	µg/L	UJ	High	Continuing Calibration >CL
		Acetone	2	µg/L	JB	High	IC RSD > CL / blank contamination
	(SVOC)	Phenol	10	µg/L	UJ	Low	Holding Time Missed
		bis (2-Chloroethyl) ether	10	µg/L	UJ	Low	Holding Time Missed
		2-Chlorophenol	10	µg/L	UJ	Low	Holding Time Missed
		1,3-Dichlorobenzene	10	µg/L	UJ	Low	Holding Time Missed
		1,4-Dichlorobenzene	10	µg/L	UJ	Low	Holding Time Missed
		1,2-Dichlorobenzene	10	µg/L	UJ	Low	Holding Time Missed
		2-Methylphenol	10	µg/L	UJ	Low	Holding Time Missed / CC > CL
		2,2-oxybis (1-Chloropropane)	10	µg/L	UJ	Low	Holding Time Missed
		4-Methylphenol	10	µg/L	UJ	Low	Holding Time Missed
		N-Nitroso-di-n-propylamine	10	µg/L	UJ	Low	Holding Time Missed / CC > CL
		Hexachloroethane	10	µg/L	UJ	Low	Holding Time Missed
		Nitrobenzene	10	µg/L	UJ	Low	Holding Time Missed
		Isophorone	10	µg/L	UJ	Low	Holding Time Missed
		2-Nitrophenol	10	µg/L	UJ	Low	Holding Time Missed
		2,4-Dimethylphenol	10	µg/L	UJ	Low	Holding Time Missed
		bis (2-Chloroethoxy) methane	10	µg/L	UJ	Low	Holding Time Missed
		2,4-Dichlorophenol	10	µg/L	UJ	Low	Holding Time Missed
		1,2,4-Trichlorobenzene	10	µg/L	UJ	Low	Holding Time Missed
		Napthalene	10	µg/L	UJ	Low	Holding Time Missed
		4-Chloroaniline	10	µg/L	UJ	Low	Holding Time Missed
		Hexachlorobutadiene	10	µg/L	UJ	Low	Holding Time Missed
		4-Chloro-3-methylphenol	10	µg/L	UJ	Low	Holding Time Missed
		2-Methylnapthalene	10	µg/L	UJ	Low	Holding Time Missed
		Hexachlorocyclopentadiene	10	µg/L	UJ	Low	Holding Time Missed
		2,4,6-Trichlorophenol	10	µg/L	UJ	Low	Holding Time Missed

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW50-09 (SVOC)	2,4,5-Trichlorophenol	26	µg/L	UJ	Low	Holding Time Missed
		2-Chloronapthalene	10	µg/L	UJ	Low	Holding Time Missed
		2-Nitroaniline	26	µg/L	UJ	Low	Holding Time Missed
		Dimethylphthalate	10	µg/L	UJ	Low	Holding Time Missed
		Acenaphthylene	10	µg/L	UJ	Low	Holding Time Missed
		2,6-Dinitrotoluene	10	µg/L	UJ	Low	Holding Time Missed / CC > CL
		3-Nitroaniline	26	µg/L	UJ	Low	Holding Time Missed
		Acenaphthene	10	µg/L	UJ	Low	Holding Time Missed
		2,4-Dinitrophenol	26	µg/L	UJ	Low	Holding Time Missed / CC > CL / IC %difference >CL
		4-Dinitrophenol	26	µg/L	UJ	Low	Holding Time Missed
		Dibenzofuran	10	µg/L	UJ	Low	Holding Time Missed
		2,4-Dinitrotoluene	10	µg/L	UJ	Low	Holding Time Missed / CC > CL
		Diethylphthalate	10	µg/L	UJ	Low	Holding Time Missed
		4-Chlorophenyl-phenylether	10	µg/L	UJ	Low	Holding Time Missed
		Fluorene	10	µg/L	UJ	Low	Holding Time Missed
		4-Nitroaniline	26	µg/L	UJ	Low	Holding Time Missed
		4,6-Dinitro-2-methylphenol	26	µg/L	UJ	Low	Holding Time Missed
		N-nitrosodiphenylamine	10	µg/L	UJ	Low	Holding Time Missed
		4-Bromophenyl-phenylether	10	µg/L	UJ	Low	Holding Time Missed
		Hexachlorobenzene	10	µg/L	UJ	Low	Holding Time Missed
		Pentachlorophenol	26	µg/L	UJ	Low	Holding Time Missed
		Phenanthrene	10	µg/L	UJ	Low	Holding Time Missed
		Anthracene	10	µg/L	UJ	Low	Holding Time Missed
		Carbazole	10	µg/L	UJ	Low	Holding Time Missed
		Di-n-butylphthalate	10	µg/L	UJ	Low	Holding Time Missed
		Fluoranthene	10	µg/L	UJ	Low	Holding Time Missed
		Pyrene	10	µg/L	UJ	Low	Holding Time Missed
		Butylbenzylphthalate	10	µg/L	UJ	Low	Holding Time Missed
		3,3-Dichlorobenzidine	10	µg/L	UJ	Low	Holding Time Missed

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW50-09 (SVOC)	Benzo (a) anthracene	10	µg/L	UJ	Low	Holding Time Missed
		Chrysene	10	µg/L	UJ	Low	Holding Time Missed
		bis (2-Ethylhexyl) phthalate	10	µg/L	UJ	Low	Holding Time Missed
		Di-n-octylphthalate	10	µg/L	UJ	Low	Holding Time Missed
		Benzo (b) fluoranthene	10	µg/L	UJ	Low	Holding Time Missed
		Benzo (k) fluoranthene	10	µg/L	UJ	Low	Holding Time Missed
		Benzo (a) pyrene	10	µg/L	UJ	Low	Holding Time Missed
		Ideno (1,2,3-cd) pyrene	10	µg/L	UJ	Low	Holding Time Missed
		Dibenzo (a,h) anthracene	10	µg/L	UJ	Low	Holding Time Missed
		Benzo (g,h,i) perylene	10	µg/L	UJ	Low	Holding Time Missed
	(Pesticide/PCB)	beta-BHC	0.0090	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		delta-BHC	0.00098	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		Methoxychlor	0.0063	µg/L	JPB	NDT	>25% diff. between two GC columns / blank contam. / below RL
944711	MW19-09 (VOC)	Chloromethane	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		Bromomethane	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		Vinyl Chloride	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		Chloroethane	14	µg/L	J	Low	Missed Holding Time for pH > 2
		Methylene Chloride	3	µg/L	J	Low	Missed Holding Time for pH > 2 / below RL
		Acetone	19	µg/L	JB	Low	Missed HT for pH > 2 / IC RSD >CL / blank contamination
		Carbon Disulfide	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		1,1-Dichloroethene	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		1,1-Dichloroethane	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		Chloroform	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		1,2-Dichloroethane	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		2-Butanone	2	µg/L	JB	Low	Missed HT for pH > 2 / blnk contamin. / CC > CL / below RL
		1,1,1-Trichloroethane	10	µg/L	UJ	Low	Missed Holding Time for pH > 2

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW19-09 (VOC)	Carbon Tetrachloride	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		Bromodichloromethane	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		1,2-Dichloropropane	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		cis-1,3-Dichloropropene	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		Trichloroethene	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		Dibromochloromethane	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		1,1,2-Trichloroethane	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		Benzene	7	µg/L	J	Low	Missed Holding Time for pH > 2 / below RL
		trans-1,3-Dichloropropene	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		Bromoform	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		4-Methyl-2-Pentanone	3	µg/L	JB	Low	Missed HT for pH > 2 / blnk contamin. / CC > CL / below RL
		2-Hexanone	3	µg/L	JB	Low	Missed HT for pH > 2 / blnk contamin. / CC > CL / below RL
		Tetrachloroethene	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		1,1,2,2-Tetrachloroethane	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		Toluene	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		Chlorobenzene	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		Ethylbenzene	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		Styrene	0	µg/L	UJ	Low	Missed Holding Time for pH > 2
		Xylene (total)	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
		1,2-Dichloroethene (total)	10	µg/L	UJ	Low	Missed Holding Time for pH > 2
	(SVOC)	Phenol	10	µg/L	UJ	Low	Missed Holding Time
		bis (2-Chloroethyl) ether	23	µg/L	J	Low	Missed Holding Time
		2-Chlorophenol	10	µg/L	UJ	Low	Missed Holding Time
		1,3-Dichlorobenzene	10	µg/L	UJ	Low	Missed Holding Time
		1,4-Dichlorobenzene	10	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichlorobenzene	10	µg/L	UJ	Low	Missed Holding Time
		2-Methylphenol	10	µg/L	UJ	Low	Holding Time Missed / CC > CL

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW19-09 (SVOC)	2,2-oxybis (1-Chloropropane)	4	µg/L	J	Low	Missed Holding Time / below RL
		4-Methylphenol	10	µg/L	UJ	Low	Missed Holding Time
		N-Nitroso-di-n-propylamine	10	µg/L	UJ	Low	Holding Time Missed / CC > CL
		Hexachloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Nitrobenzene	10	µg/L	UJ	Low	Missed Holding Time
		Isophorone	10	µg/L	UJ	Low	Missed Holding Time
		2-Nitrophenol	10	µg/L	UJ	Low	Missed Holding Time
		2,4-Dimethylphenol	10	µg/L	UJ	Low	Missed Holding Time
		bis (2-Chloroethoxy) methane	10	µg/L	UJ	Low	Missed Holding Time
		2,4-Dichlorophenol	10	µg/L	UJ	Low	Missed Holding Time
		1,2,4-Trichlorobenzene	10	µg/L	UJ	Low	Missed Holding Time
		Napthalene	10	µg/L	UJ	Low	Missed Holding Time
		4-Chloroaniline	10	µg/L	UJ	Low	Missed Holding Time
		Hexachlorobutadiene	10	µg/L	UJ	Low	Missed Holding Time
		4-Chloro-3-methylphenol	10	µg/L	UJ	Low	Missed Holding Time
		2-Methylnapthalene	10	µg/L	UJ	Low	Missed Holding Time
		Hexachlorocyclopentadiene	10	µg/L	UJ	Low	Missed Holding Time
		2,4,6-Trichlorophenol	10	µg/L	UJ	Low	Missed Holding Time
		2,4,5-Trichlorophenol	25	µg/L	UJ	Low	Missed Holding Time
		2-Chloronapthalene	10	µg/L	UJ	Low	Missed Holding Time
		2-Nitroaniline	25	µg/L	UJ	Low	Missed Holding Time
		Dimethylphthalate	10	µg/L	UJ	Low	Missed Holding Time
		Acenaphthylene	10	µg/L	UJ	Low	Missed Holding Time
		2,6-Dinitrotoluene	10	µg/L	UJ	Low	Holding Time Missed / CC > CL
		3-Nitroaniline	25	µg/L	UJ	Low	Missed Holding Time
		Acenaphthene	10	µg/L	UJ	Low	Missed Holding Time
		2,4-Dinitrophenol	25	µg/L	UJ	Low	HT Missed/ CC %Difference > CL / IC % Difference>CL
		4-Dinitrophenol	25	µg/L	UJ	Low	Missed Holding Time

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW19-09 (SVOC)	Dibenzofuran	10	µg/L	UJ	Low	Missed Holding Time
		2,4-Dinitrotoluene	10	µg/L	UJ	Low	Holding Time Missed / CC > CL
		Diethylphthalate	10	µg/L	UJ	Low	Missed Holding Time
		4-Chlorophenyl-phenylether	10	µg/L	UJ	Low	Missed Holding Time
		Fluorene	10	µg/L	UJ	Low	Missed Holding Time
		4-Nitroaniline	25	µg/L	UJ	Low	Missed Holding Time
		4,6-Dinitro-2-methylphenol	25	µg/L	UJ	Low	Missed Holding Time
		N-nitrosodiphenylamine	10	µg/L	UJ	Low	Missed Holding Time
		4-Bromophenyl-phenylether	10	µg/L	UJ	Low	Missed Holding Time
		Hexachlorobenzene	10	µg/L	UJ	Low	Missed Holding Time
		Pentachlorophenol	25	µg/L	UJ	Low	Missed Holding Time
		Phenanthrene	10	µg/L	UJ	Low	Missed Holding Time
		Anthracene	10	µg/L	UJ	Low	Missed Holding Time
		Carbazole	10	µg/L	UJ	Low	Missed Holding Time
		Di-n-butylphthalate	10	µg/L	UJ	Low	Missed Holding Time
		Fluoranthene	10	µg/L	UJ	Low	Missed Holding Time
		Pyrene	10	µg/L	UJ	Low	Missed Holding Time
		Butylbenzylphthalate	10	µg/L	UJ	Low	Missed Holding Time
		3,3-Dichlorobenzidine	10	µg/L	UJ	Low	Missed Holding Time
		Benzo (a) anthracene	10	µg/L	UJ	Low	Missed Holding Time
		Chrysene	10	µg/L	UJ	Low	Missed Holding Time
		bis (2-Ethylhexyl) phthalate	1	µg/L	J	Low	Missed Holding Time / below RL
		Di-n-octylphthalate	10	µg/L	UJ	Low	Missed Holding Time
		Benzo (b) fluoranthene	10	µg/L	UJ	Low	Missed Holding Time
		Benzo (k) fluoranthene	10	µg/L	UJ	Low	Missed Holding Time
		Benzo (a) pyrene	10	µg/L	UJ	Low	Missed Holding Time
		Ideno (1,2,3-cd) pyrene	10	µg/L	UJ	Low	Missed Holding Time
		Dibenzo (a,h) anthracene	10	µg/L	UJ	Low	Missed Holding Time

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW19-09 (SVOC)	Benzo (g,h,i) perylene	10	µg/L	UJ	Low	Missed Holding Time
	(Pesticide/PCB)	alpha-BHC	0.0038	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		beta-BHC	0.022	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		delta-BHC	0.0019	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		Heptachlor	0.0044	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		Endosulfan II	0.0019	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		alpha-Chlordane	0.0053	µg/L	JP	NDT	>25% difference between two GC columns / below RL
944740	MW45-09 (VOC)	2-Butanone	50	µg/L	UJ	High	Continuing Calibration >CL
		4-Methyl-2-Pentanone	50	µg/L	UJ	High	Continuing Calibration >CL
		2-Hexanone	50	µg/L	UJ	High	Continuing Calibration >CL
	(SVOC)	Phenol	31	µg/L	J	Low	Missed Holding Time
		bis (2-Chloroethyl) ether	4	µg/L	J	Low	Missed Holding Time / below RL
		2-Chlorophenol	10	µg/L	UJ	Low	Missed Holding Time
		1,3-Dichlorobenzene	10	µg/L	UJ	Low	Missed Holding Time
		1,4-Dichlorobenzene	2	µg/L	J	Low	Missed Holding Time / below RL
		1,2-Dichlorobenzene	4	µg/L	J	Low	Missed Holding Time / below RL
		2-Methylphenol	10	µg/L	UJ	Low	Holding Time Missed / CC > CL
		2,2-oxybis (1-Chloropropane)	7	µg/L	J	Low	Missed Holding Time / below RL
		4-Methylphenol	10	µg/L	UJ	Low	Missed Holding Time
		N-Nitroso-di-n-propylamine	10	µg/L	UJ	Low	Holding Time Missed / CC > CL
		Hexachloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Nitrobenzene	10	µg/L	UJ	Low	Missed Holding Time
		Isophorone	10	µg/L	UJ	Low	Missed Holding Time
		2-Nitrophenol	10	µg/L	UJ	Low	Missed Holding Time

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW45-09 (SVOC)	2,4-Dimethylphenol	10	µg/L	UJ	Low	Missed Holding Time
		bis (2-Chloroethoxy) methane	10	µg/L	UJ	Low	Missed Holding Time
		2,4-Dichlorophenol	10	µg/L	UJ	Low	Missed Holding Time
		1,2,4-Trichlorobenzene	10	µg/L	UJ	Low	Missed Holding Time
		Napthalene	11	µg/L	J	Low	Missed Holding Time
		4-Chloroaniline	10	µg/L	UJ	Low	Missed Holding Time
		Hexachlorobutadiene	10	µg/L	UJ	Low	Missed Holding Time
		4-Chloro-3-methylphenol	10	µg/L	UJ	Low	Missed Holding Time
		2-Methylnapthalene	0.5	µg/L	J	Low	Missed Holding Time / below RL
		Hexachlorocyclopentadiene	10	µg/L	UJ	Low	Missed Holding Time
		2,4,6-Trichlorophenol	10	µg/L	UJ	Low	Missed Holding Time
		2,4,5-Trichlorophenol	26	µg/L	UJ	Low	Missed Holding Time
		2-Chloronapthalene	10	µg/L	UJ	Low	Missed Holding Time
		2-Nitroaniline	26	µg/L	UJ	Low	Missed Holding Time
		Dimethylphthalate	10	µg/L	UJ	Low	Missed Holding Time
		Acenaphthylene	10	µg/L	UJ	Low	Missed Holding Time
		2,6-Dinitrotoluene	10	µg/L	UJ	Low	Holding Time Missed / CC > CL
		3-Nitroaniline	26	µg/L	UJ	Low	Missed Holding Time
		Acenaphthene	10	µg/L	UJ	Low	Missed Holding Time
		2,4-Dinitrophenol	26	µg/L	UJ	Low	Holding Time Missed / CC > CL / IC %difference > CL
		4-Dinitrophenol	26	µg/L	UJ	Low	Missed Holding Time
		Dibenzofuran	10	µg/L	UJ	Low	Missed Holding Time
		2,4-Dinitrotoluene	10	µg/L	UJ	Low	Holding Time Missed / CC > CL
		Diethylphthalate	10	µg/L	UJ	Low	Missed Holding Time
		4-Chlorophenyl-phenylether	10	µg/L	UJ	Low	Missed Holding Time
		Fluorene	10	µg/L	UJ	Low	Missed Holding Time
		4-Nitroaniline	26	µg/L	UJ	Low	Missed Holding Time
		4,6-Dinitro-2-methylphenol	26	µg/L	UJ	Low	Missed Holding Time

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW45-09 (SVOC)	N-nitrosodiphenylamine	10	µg/L	UJ	Low	Missed Holding Time
		4-Bromophenyl-phenylether	10	µg/L	UJ	Low	Missed Holding Time
		Hexachlorobenzene	10	µg/L	UJ	Low	Missed Holding Time
		Pentachlorophenol	26	µg/L	UJ	Low	Missed Holding Time
		Phenanthrene	10	µg/L	UJ	Low	Missed Holding Time
		Anthracene	10	µg/L	UJ	Low	Missed Holding Time
		Carbazole	10	µg/L	UJ	Low	Missed Holding Time
		Di-n-butylphthalate	10	µg/L	UJ	Low	Missed Holding Time
		Fluoranthene	10	µg/L	UJ	Low	Missed Holding Time
		Pyrene	10	µg/L	UJ	Low	Missed Holding Time
		Butylbenzylphthalate	10	µg/L	UJ	Low	Missed Holding Time
		3,3-Dichlorobenzidine	10	µg/L	UJ	Low	Missed Holding Time
		Benzo (a) anthracene	10	µg/L	UJ	Low	Missed Holding Time
		Chrysene	10	µg/L	UJ	Low	Missed Holding Time
		bis (2-Ethylhexyl) phthalate	10	µg/L	UJ	Low	Missed Holding Time
		Di-n-octylphthalate	10	µg/L	UJ	Low	Missed Holding Time
		Benzo (b) fluoranthene	10	µg/L	UJ	Low	Missed Holding Time
		Benzo (k) fluoranthene	10	µg/L	UJ	Low	Missed Holding Time
		Benzo (a) pyrene	10	µg/L	UJ	Low	Missed Holding Time
		Ideno (1,2,3-cd) pyrene	10	µg/L	UJ	Low	Missed Holding Time
		Dibenzo (a,h) anthracene	10	µg/L	UJ	Low	Missed Holding Time
		Benzo (g,h,i) perylene	10	µg/L	UJ	Low	Missed Holding Time
	(Pesticide/PCB)	alpha-BHC	0.0032	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		beta-BHC	0.0078	µg/L	JP	NDT	>25% difference between two GC columns / below RL
945258	M4S-09 (VOC)	2-Butanone	100	µg/L	UJ	High	Continuing Calibration >CL
		4-Methyl-2-Pentanone	100	µg/L	UJ	High	Continuing Calibration >CL

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	M4S-09	2-Hexanone	100	µg/L	UJ	High	Continuing Calibration >CL
	(VOC)	Acetone	26	µg/L	JB	High	IC RSD > CL / blank contamination / below RL
		Methylene Chloride	19	µg/L	J	NDT	Detected below RL
	(SVOC)	2-Methylnaphthalene	11	µg/L	UJ	NDT	CC % difference > CL
		4-Nitroaniline	28	µg/L	UJ	NDT	CC % difference > CL
		Carbazole	11	µg/L	UJ	NDT	CC % difference > CL
		Fluoranthene	11	µg/L	UJ	NDT	CC % difference > CL
	(Pesticide/PCB)	alpha-BHC	0.0083	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		beta-BHC	0.016	µg/L	JPB	NDT	>25% diff. between two GC columns / blank contam. / below RL
		delta-BHC	0.0012	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		gamma-BHC	0.011	µg/L	J	NDT	Detected below RL
945259	M4S-99	2-Butanone	100	µg/L	UJ	High	Continuing Calibration >CL
	(VOC)	4-Methyl-2-Pentanone	100	µg/L	UJ	High	Continuing Calibration >CL
		2-Hexanone	100	µg/L	UJ	High	Continuing Calibration >CL
		Acetone	24	µg/L	JB	High	IC RSD > CL / blank contamination / below RL
		Methylene Chloride	18	µg/L	J	NDT	Detected below RL
	(SVOC)	bis (2-chloroethyl) ether	95	µg/L	E	NDT	Exceeded calibration range
		2-Methylnaphthalene	10	µg/L	UJ	NDT	CC % difference > CL
		4-Nitroaniline	26	µg/L	UJ	NDT	CC % difference > CL
		Carbazole	10	µg/L	UJ	NDT	CC % difference > CL
		Fluoranthene	10	µg/L	UJ	NDT	CC % difference > CL
	(Pesticide/PCB)	alpha-BHC	0.0090	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		beta-BHC	0.012	µg/L	JPB	NDT	>25% diff. between two GC columns / blank contam. / below RL

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	M4S-99	delta-BHC	0.0027	µg/L	JP	NDT	>25% difference between two GC columns / below RL
	(Pesticide/PCB)	gamma-BHC	0.0084	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		4,4-DDD	0.0084	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		alpha-Chlordane	0.0040	µg/L	JP	NDT	>25% difference between two GC columns / below RL
945259	M4S-99 DL	Pentachlorophenol	51	µg/L	UJ	High	Continuing Calibration >CL
	(SVOC)	2-Methylphenol	20	µg/L	UJ	High	Continuing Calibration >CL
		4-Methylphenol	20	µg/L	UJ	High	Continuing Calibration >CL
		Nitrobenzene	20	µg/L	UJ	High	Continuing Calibration >CL
		Hexachlorocyclopentadiene	20	µg/L	UJ	High	Continuing Calibration >CL
		2,4-Dinitrophenol	51	µg/L	UJ	High	Continuing Calibration >CL
		bis (2-chloroethyl) ether	91	µg/L	D	NDT	Diluted sample
945261	MW15-09	2-Butanone	10	µg/L	UJ	High	Continuing Calibration >CL
	(VOC)	4-Methyl-2-Pentanone	10	µg/L	UJ	High	Continuing Calibration >CL
		2-Hexanone	10	µg/L	UJ	High	Continuing Calibration >CL
		Acetone	4	µg/L	J	High	IC RSD > CL / below RL
		Methylene Chloride	5	µg/L	J	NDT	Detected below RL
		Benzene	3	µg/L	J	NDT	Detected below RL
	(SVOC)	2-Methylnaphthalene	10	µg/L	UJ	NDT	CC % difference > CL
		4-Nitroaniline	26	µg/L	UJ	NDT	CC % difference > CL
		Carbazole	10	µg/L	UJ	NDT	CC % difference > CL
		Fluoranthene	10	µg/L	UJ	NDT	CC % difference > CL
	(Pesticide/PCB)	beta-BHC	0.0081	µg/L	JPB	NDT	>25% diff. between two GC columns / blank contam. / below RL
		delta-BHC	0.0016	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		gamma-BHC	0.0033	µg/L	JP	NDT	>25% difference between two GC columns / below RL

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW15-09	Heptachlor	0.0074	µg/L	JP	NDT	>25% difference between two GC columns / below RL
	(Pesticide/PCB)	Aldrin	0.0021	µg/L	JP	NDT	>25% difference between two GC columns / below RL
945684	MW14-09	Acetone	10	µg/L	JB	High	IC RSD > CL / blank contamination / below RL
	(VOC)	Methylene Chloride	3	µg/L	JB	High	blank contamination / Detected below RL
		Chloromethane	10	µg/L	UJ	High	CC %difference > CL
	(SVOC)	Nitrobenzene	10	µg/L	UJ	High	Continuing Calibration >CL
		2,2-oxybis (1-Chloropropane)	10	µg/L	UJ	High	Continuing Calibration >CL
		4-Nitrophenol	26	µg/L	UJ	High	Continuing Calibration >CL
		Pentachlorophenol	26	µg/L	UJ	High	Continuing Calibration >CL
		3,3-Dichlorobenzidine	10	µg/L	UJ	High	Continuing Calibration >CL
	(Pesticide/PCB)	Heptachlor	0.0022	µg/L	JP	NDT	>25% difference between two GC columns / below RL
945685	MW09R-09	Acetone	8	µg/L	JB	High	IC RSD > CL / blank contamination / below RL
	(VOC)	Methylene Chloride	9	µg/L	JB	High	blank contamination / Detected below RL
		Chloromethane	10	µg/L	UJ	High	CC %difference > CL
	(SVOC)	Nitrobenzene	10	µg/L	UJ	High	Continuing Calibration >CL
		2,2-oxybis (1-Chloropropane)	10	µg/L	UJ	High	Continuing Calibration >CL
		4-Nitrophenol	25	µg/L	UJ	High	Continuing Calibration >CL
		Pentachlorophenol	25	µg/L	UJ	High	Continuing Calibration >CL
		3,3-Dichlorobenzidine	10	µg/L	UJ	High	Continuing Calibration >CL
	(Pesticide/PCB)	delta-BHC	0.0053	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		alpha-Chlordane	0.010	µg/L	JP	NDT	>25% difference between two GC columns / below RL

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
945685	MW09R-09 DL	Acetone	15	µg/L	DJ	High	IC RSD > CL / Diluted / below RL
	(VOC)	Chloromethane	56	µg/L	UJ	High	CC %difference > CL
945686	MW06-99	Acetone	28	µg/L	JB	High	IC RSD > CL / blank contamination
	(VOC)	Methylene Chloride	3	µg/L	JB	High	Detected below RL / blank contamination
		Chloromethane	25	µg/L	UJ	High	CC %difference > CL
(cont.)	MW06-99	Nitrobenzene	10	µg/L	UJ	High	Continuing Calibration >CL
	(SVOC)	2,2-oxybis (1-Chloropropane)	10	µg/L	UJ	High	Continuing Calibration >CL
		4-Nitrophenol	26	µg/L	UJ	High	Continuing Calibration >CL
		Pentachlorophenol	26	µg/L	UJ	High	Continuing Calibration >CL
		3,3-Dichlorobenzidine	10	µg/L	UJ	High	Continuing Calibration >CL
		bis (2-ethylhexyl) phthalate	5	µg/L	JB	NDT	Detected below RL / blank contamination
	(Pesticide/PCB)	alpha-BHC	0.012	µg/L	J	NDT	Detected below RL
		beta-BHC	0.064	µg/L	P	NDT	>25% difference between two GC columns
		delta-BHC	0.0012	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		gamma-BHC	0.014	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		Heptachlor	0.015	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		Aldrin	0.0072	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		alpha-Chlordane	0.0085	µg/L	J	NDT	Detected below RL
		gamma-Chlordane	0.0019	µg/L	JP	NDT	>25% difference between two GC columns / below RL
945687	MW06-09	Acetone	80	µg/L	JB	High	IC RSD > CL / blank contamination
	(VOC)	2-Butanone	2	µg/L	J	NDT	Detected below RL
		Toluene	1	µg/L	J	NDT	Detected below RL
		1,2-Dichloroethene	1	µg/L	J	NDT	Detected below RL
		Chloromethane	10	µg/L	UJ	High	CC %difference > CL

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW06-09 (SVOC)	Nitrobenzene	10	µg/L	UJ	High	Continuing Calibration >CL
		2,2-oxybis (1-Chloropropane)	10	µg/L	UJ	High	Continuing Calibration >CL
		4-Nitrophenol	26	µg/L	UJ	High	Continuing Calibration >CL
		Pentachlorophenol	26	µg/L	UJ	High	Continuing Calibration >CL
		3,3-Dichlorobenzidine	10	µg/L	UJ	High	Continuing Calibration >CL
		Isophorne	3	µg/L	J	NDT	Detected below RL
	(Pesticide/PCB)	alpha-BHC	0.0095	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		beta-BHC	0.36	µg/L	P	NDT	>25% difference between two GC columns
		delta-BHC	0.0040	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		gamma-BHC	0.0066	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		Heptachlor	0.0043	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		Dieldrin	0.0069	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		4,4-DDE	0.0012	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		Endrin	0.021	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		alpha-Chlordane	0.0068	µg/L	JP	NDT	>25% difference between two GC columns / below RL
945705	MW10C-09 (VOC)	Acetone	990	µg/L	JB	High	IC RSD > CL / blank contamination / below RL
		Methylene Chloride	130	µg/L	JB	High	Detected below RL / blank contamination
		Chloromethane	1000	µg/L	UJ	High	CC %difference > CL
	(SVOC)	Nitrobenzene	10	µg/L	UJ	High	Continuing Calibration >CL
		2,2-oxybis (1-Chloropropane)	10	µg/L	UJ	High	Continuing Calibration >CL
		4-Nitrophenol	26	µg/L	UJ	High	Continuing Calibration >CL
		Pentachlorophenol	26	µg/L	UJ	High	Continuing Calibration >CL
		3,3-Dichlorobenzidine	10	µg/L	UJ	High	Continuing Calibration >CL
		bis (2-Ethylhexyl) phthalate	2	µg/L	JB	High	Surrogate %R > CL / blank contamination / below RL

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW10C-09 (Pesticide/PCB)	beta-BHC	0.017	µg/L	J	NDT	Detected below RL
		delta-BHC	0.0023	µg/L	JP	NDT	>25% difference between two GC columns / below RL
		gamma-BHC	0.0012	µg/L	JP	NDT	>25% difference between two GC columns / below RL

B - Blank contamination
CC - Continuing calibration
CL - Control limit
D - Diluted
HT - Holding time
IC - Initial calibration
J - Estimated value
µg/L - micrograms/Liter
NDT - Not Determined
P - indicates that the percent difference between the two GP columns is greater than 25%.
R - Recovery
RL - Reporting limit
RSD - Relative standard deviation
U - The associated value is at or below MDL.

TABLE 1-2

SUMMARY OF INORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
944694	MW50-09	Antimony	2.3	µg/L	J	NDT	Detected below RL
		Arsenic	2.9	µg/L	J	NDT	Detected below RL
		Beryllium	0.41	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Cadmium	0.71	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Cobalt	5.7	µg/L	J	NDT	Detected below RL
		Copper	12.6	µg/L	J	NDT	Detected below RL
		Mercury	1.1	µg/L	J	Low	Missed Holding Time
		Potassium	9530	µg/L	J	High	Serial Dilution %D > CL
		Vanadium	8.3	µg/L	J	NDT	Detected below RL
		Zinc	19.1	µg/L	J	High	Lab duplicate RPD > CL / below RL
944711	MW19-09	Aluminum	64.6	µg/L	J	NDT	Detected below RL
		Arsenic	7.7	µg/L	J	NDT	Detected below RL
		Beryllium	0.25	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Chromium	3.6	µg/L	J	NDT	Detected below RL
		Cobalt	1.4	µg/L	J	NDT	Detected below RL
		Copper	2.3	µg/L	J	NDT	Detected below RL
		Cyanide	5.1	µg/L	J	NDT	Detected below RL
		Mercury	0.05	µg/L	UJ	Low	Missed Holding Time
		Nickel	16.2	µg/L	J	NDT	Detected below RL
		Potassium	92400	µg/L	J	High	Serial Dilution %D > CL
		Vanadium	0.73	µg/L	J	NDT	Detected below RL
944740	MW45-09	Antimony	2.1	µg/L	J	NDT	Detected below RL
		Barium	84.2	µg/L	J	NDT	Detected below RL
		Beryllium	0.26	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Cobalt	3.0	µg/L	J	NDT	Detected below RL
		Copper	5.0	µg/L	J	NDT	Detected below RL

TABLE 1-2

SUMMARY OF INORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW45-09	Lead	1.8	µg/L	J	NDT	Detected below RL
		Mercury	0.05	µg/L	UJ	Low	Missed Holding Time
		Potassium	5430	µg/L	J	High	Serial Dilution %D > CL
		Vanadium	1.1	µg/L	J	NDT	Detected below RL
		Zinc	5.6	µg/L	J	High	Lab duplicate RPD > CL / below RL
945258	M4S-09	Aluminum	83.9	µg/L	J	NDT	Detected below RL
		Antimony	3.2	µg/L	J	NDT	Detected below RL
		Arsenic	2.7	µg/L	J	NDT	Detected below RL
		Beryllium	0.44	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Cadmium	1.8	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Chromium	6.2	µg/L	J	NDT	Detected below RL
		Cobalt	6.0	µg/L	J	NDT	Detected below RL
		Mercury	0.05	µg/L	UJ	Low	Missed Holding Time
		Nickel	11.5	µg/L	J	NDT	Detected below RL
		Potassium	18800	µg/L	J	High	Serial Dilution %D > CL
		Vanadium	2.9	µg/L	J	NDT	Detected below RL
		Zinc	2.5	µg/L	J	High	Lab duplicate RPD > CL / below RL
945259	M4S-99	Aluminum	53.7	µg/L	J	NDT	Detected below RL
		Antimony	2.8	µg/L	J	NDT	Detected below RL
		Arsenic	4.0	µg/L	J	NDT	Detected below RL
		Beryllium	0.32	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Cadmium	2.6	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Chromium	3.7	µg/L	J	NDT	Detected below RL
		Cobalt	7.2	µg/L	J	NDT	Detected below RL
		Mercury	0.05	µg/L	UJ	Low	Missed Holding Time
		Nickel	11.3	µg/L	J	NDT	Detected below RL

TABLE 1-2

SUMMARY OF INORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	M4S-99	Potassium	19500	µg/L	J	High	Serial Dilution %D > CL
		Silver	0.38	µg/L	J	NDT	Detected below RL
		Vanadium	4.0	µg/L	J	NDT	Detected below RL
		Zinc	2.7	µg/L	J	High	Lab duplicate RPD > CL / below RL
945261	MW15-09	Beryllium	0.47	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Chromium	4.1	µg/L	J	NDT	Detected below RL
		Cobalt	5.5	µg/L	J	NDT	Detected below RL
		Copper	3.0	µg/L	J	NDT	Detected below RL
		Mercury	0.05	µg/L	UJ	Low	Missed Holding Time
		Nickel	19.8	µg/L	J	NDT	Detected below RL
		Potassium	124000	µg/L	J	High	Serial Dilution %D > CL
		Vanadium	1.9	µg/L	J	NDT	Detected below RL
		Zinc	2.1	µg/L	J	High	Lab duplicate RPD > CL / below RL
945684	MW14-09	Antimony	2.9	µg/L	J	NDT	Detected below RL
		Barium	119	µg/L	J	NDT	Detected below RL
		Beryllium	0.93	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Cobalt	24.7	µg/L	J	NDT	Detected below RL
		Mercury	0.05	µg/L	UJ	Low	Missed Holding Time
		Potassium	5050	µg/L	J	High	Serial Dilution %D > CL
		Selenium	6.6	µg/L	J	High	Spike Sample %R > CL
		Zinc	44.5	µg/L	J	High	Lab duplicate RPD > CL
945685	MW09R-09	Arsenic	2.0	µg/L	J	NDT	Detected below RL
		Beryllium	0.36	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Cadmium	0.92	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Cobalt	3.3	µg/L	J	NDT	Detected below RL

TABLE 1-2

SUMMARY OF INORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW09R-09	Copper	5.7	µg/L	J	NDT	Detected below RL
		Mercury	0.05	µg/L	UJ	Low	Missed Holding Time
		Nickel	18.2	µg/L	J	NDT	Detected below RL
		Potassium	7790	µg/L	J	High	Serial Dilution %D > CL
		Vanadium	2.5	µg/L	J	NDT	Detected below RL
		Zinc	20.6	µg/L	J	High	Lab duplicate RPD > CL
945686	MW06-99	Aluminum	85.3	µg/L	J	NDT	Detected below RL
		Antimony	2.5	µg/L	J	NDT	Detected below RL
		Beryllium	0.38	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Cadmium	2.2	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Cobalt	2.0	µg/L	J	NDT	Detected below RL
		Copper	3.8	µg/L	J	NDT	Detected below RL
		Cyanide	5.7	µg/L	J	NDT	Detected below RL
		Mercury	0.05	µg/L	UJ	Low	Missed Holding Time
		Nickel	21.6	µg/L	J	NDT	Detected below RL
		Potassium	16400	µg/L	J	High	Serial Dilution %D > CL
		Silver	0.40	µg/L	J	NDT	Detected below RL
		Zinc	4.4	µg/L	J	High	Lab duplicate RPD > CL / below RL
945687	MW06-09	Aluminum	41.3	µg/L	J	NDT	Detected below RL
		Antimony	3.2	µg/L	J	NDT	Detected below RL
		Beryllium	0.25	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Cadmium	2.1	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Chromium	8.1	µg/L	J	NDT	Detected below RL
		Cobalt	2.4	µg/L	J	NDT	Detected below RL
		Copper	3.7	µg/L	J	NDT	Detected below RL
		Mercury	0.05	µg/L	UJ	Low	Missed Holding Time

TABLE 1-2

SUMMARY OF INORGANIC DATA QUALIFICATIONS
SDG 003
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW06-09	Nickel	20.2	µg/L	J	NDT	Detected below RL
		Potassium	16500	µg/L	J	High	Serial Dilution %D > CL
		Vanadium	0.68	µg/L	J	NDT	Detected below RL
		Zinc	2.3	µg/L	J	High	Lab duplicate RPD > CL / below RL
945705	MW10C-09	Antimony	2.1	µg/L	J	NDT	Detected below RL
		Beryllium	0.33	µg/L	J	High	Lab duplicate RPD > CL / below RL
		Cobalt	2.7	µg/L	J	NDT	Detected below RL
		Copper	3.6	µg/L	J	NDT	Detected below RL
		Cyanide	7.4	µg/L	J	NDT	Detected below RL
		Mercury	0.05	µg/L	UJ	Low	Missed Holding Time
		Nickel	13.4	µg/L	J	NDT	Detected below RL
		Potassium	3630	µg/L	J	High	Serial Dilution %D > CL / below RL
		Vanadium	2.0	µg/L	J	NDT	Detected below RL
		Zinc	5.1	µg/L	J	High	Lab duplicate RPD > CL / below RL

CL - Control limit
D - Difference
J - Estimated value
µg/L - micrograms/Liter
RL - Reporting limit
RPD - Relative percent difference
U - The associated value is at or below IDL.

TABLE 1-3

COMPARISON OF ORIGINAL AND RE-ANALYSIS SAMPLES FOR SVOCs
SDG 003
AMERICAN CHEMICAL SERVICE, INC
GRIFFITH, INDIANA

Analyte	ACSGWMW19-09	ACSGWMW19-09RE
bis (2-Chloroethyl) ether	23	23
2,2-oxybis (1-Chloropropane)	2 J	4 J
Isophorone	6 J	10 U
bis (2-Ethylhexyl) phthalate	16	1 J
All other analytes	U	U

Analyte	ACSGWMW45-09	ACSGWMW45-09RE
Phenol	5 J	31
bis (2-Chloroethyl) ether	5 J	4 J
1,4-Dichlorobenzene	2 J	2 J
1,2-Dichlorobenzene	4 J	4 J
2,2-oxybis (1-Chloropropane)	7 J	7 J
Isophorone	2 J	10 U
Napthalene	97 E	11
2-Methylnapthalene	2 J	0.5 J
All other analytes	U	U

Analyte	ACSGWMW50-09	ACSGWMW50-09RE
All analytes	U	U

E - result exceeded the calibration range
J - result is estimated
RE - re-analysis
U - result not detected

MEMORANDUM

MONTGOMERY WATSON

To:	Trisha Woolslayer	**Date:**	August 20, 1999
From:	Anne Koob, MW	**Job No.:**	1252042.281601
Subject:	Data Validation for American Chemical Service (ACS). Griffith, Indiana. June 1999	**SDG:**	005

INTRODUCTION

The following text is based on the validation of water samples collected at American Chemical Service, Inc. in June of 1999.

Fourteen water samples and six field quality assurance samples were analyzed by CompuChem Laboratories, Cary, North Carolina for the following parameters:

- VOA's by CLP – OLM 3.0 (samples FB02-09, FB03-09, FB04-09, FB05-09, M1S-09, M4D-09, MW07-09, MW11-09, MW23-09, MW24-09, MW29-09, MW30-09, MW33-09, MW37-09, MW43-09, MW46-09, MW47-09, MW51-09, TB03-09, and TB04-09)

- SVOA's by CLP – OLM 3.0 (samples FB02-09, FB03-09, FB04-09, FB05-09, MW23-09, MW24-09, MW29-09, MW30-09, MW33-09, MW37-09, MW43-09, MW46-09, MW47-09, and MW51-09)

- Pesticides/PCB's by CLP – OLM 3.0 (samples FB02-09, FB03-09, FB04-09, FB05-09, MW23-09, MW24-09, MW29-09, MW30-09, MW33-09, MW37-09, MW43-09, MW46-09, MW47-09, and MW51-09)

- Inorganics by CLP – ILM04.0 (samples FB02-09, FB03-09, FB04-09, FB05-09, MW07-09, MW11-09, MW23-09, MW24-09, MW29-09, MW30-09, MW33-09, MW37-09, MW43-09, MW46-09, MW47-09, MW51-09, M1S-09, and M4D-09)

- Cyanide by CLP – ILM04.0 (samples FB02-09, FB03-09, FB04-09, FB05-09, MW07-09, MW11-09, MW23-09, MW24-09, MW29-09, MW30-09, MW33-09, MW37-09, MW43-09, MW46-09, MW47-09, MW51-09, M1S-09, and M4D-09)

Data validation was conducted in accordance with procedures specified in *Pre-Design Activities Quality Assurance Project Plan (MW, 1995), National Functional Guidelines for Organic Data*

Review (USEPA, 1994a), and National Functional Guidelines for Inorganic Data Review (USEPA, 1994b).

The following field quality control samples were collected during the June 1999 sampling round:

- Four field blanks: FB02-09, FB03-09, FB04-09, FB05-09; and
- Two trip blanks: TB03-09, and TB04-09.

This memorandum contains a narrative summarizing the data quality objectives specified in the work plan, and provides a table of qualified data (Table 1-1 and 1-2) and supporting validation documentation (Attachment A).

SUMMARY

This section describes the quality control parameters reviewed during validation, summarizes the data quality objectives as a result of the validation and provides a summary of the deficiencies and qualification applied. The following paragraphs describe deficiencies that were identified which resulted in qualification of the sample results. Each analysis is separated into sections for clarity.

Volatile Organic Componds

Major Deficiencies: The following paragraphs describe the major deficiencies identified during the validation process.

Holding Time

- One samples for this analysis exceeded the holding time requirement of 14 days by 2.5 hours. All positive results were qualified as "J" and all non-detects as "UJ" with a low bias. The lab narrative indicates that sample M1S-09 arrived at a pH of 3, which is greater than the preservation criteria of pH 2. Holding time criteria for non-aromatic volatile compounds is fourteen days, regardless of pH, provided that the temperature has been maintained at 4±2° C. Sample temperature was properly maintained and no data were qualified due to the pH nonconformance.

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

Initial Calibration

- The initial calibration (run on 6/20/99 at 1249) %RSD for acetone (51.5 percent) was above the control limit of 30 percent. All positive results were qualified as an estimate "J" for acetone.

Continuing Calibration

- The continuing calibration (run on 6/27/99 at 1120) for acetone (-30.3 percent) had a percent difference that exceeded the control limit of ±25 percent. All positive and nondetect results were qualified as estimated with a low bias.

Surrogate Compounds

- The 1,2-Dichloroethane surrogate in sample FB03-09 was recovered at 124%, which is above the control limit of 114%. All positive results were qualified as estimated "J" with a high bias.

Contaminants were detected below the CRDL in some blanks and the associated sample results were flagged "B", by the laboratory, to indicate the possibility of blank contamination. Because most detections in blanks were below reporting limits, blank contamination is not expected to affect data usability across the board. Samples with associated blank contamination (above the reporting limit) are noted in the table of qualified data.

Semi-Volatile Organic Compounds

Major Deficiencies: There were no major deficiencies identified during the validation process.

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

Continuing Calibration

- A continuing calibration (run on 6/22/99 at 0921) had a percent difference for Nitrobenzene (34.1 percent/high bias) and Pentachlorophenol (38.7 percent/low bias) that exceeded the control limit of 25 percent. All affected samples were ND for pentachlorophenol; thus the practical quantitation limit (PQL) was qualified as estimated "UJ". No qualification was required for Nitrobenzene because the associated samples were ND and the CCV demonstrated a high bias.

Surrogate Compounds

- The Nitrobenzene-d5 surrogate in sample MW24-09 was recovered at 120%, which is above the control limit of 114%. All positive results were qualified as estimated "J" with a high bias.
- The Nitrobenzene-d5 surrogate in sample FB05-09 was recovered at 120%, which is above the control limit of 114%. All positive results were qualified as estimated "J" with a high bias.
- The Nitrobenzene-d5 surrogate in sample FB04-09 was recovered at 130%, which is above the control limit of 114%. All positive results were qualified as estimated "J" with a high bias.
- The Nitrobenzene-d5 surrogate in sample FB02-09 was recovered at 123%, which is above the control limit of 114%. All positive results were qualified as estimated "J" with a high bias.
- The 2,4,6-Tribromophenol surrogate in sample MW24-09 was recovered at 131%, which is above the control limit of 114%. All positive results were qualified as estimated "J" with a high bias.
- The 2-Fluorobiphenyl surrogate in sample MW43-09 was recovered at 32%, which is below the control limit of 35%. All positive results were qualified as estimated "J", with a low bias. For all ND results, the PQL was qualified as estimated "UJ" with a low bias.
- The 2-Chlorophenol-d4 surrogate in sample MW43-09 was recovered at 32%, which is below the control limit of 33%. Though this surrogate is an advisory surrogate, it is required to pass within control limits. All positive results were qualified as estimated

"J", with a low bias. For all ND results, the PQL was qualified as estimated "UJ" with a low bias.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

- The MS/MSD recovery for 4-Nitrophenol in sample MW47-09 was 97%/94%, which is above the upper control limit of 80%. No data were qualified, as all results for this compound were non-detect.
- The MSD recovery for 4-Chloro-3-methylphenol in sample MW47-09 was 99%, which is above the upper control limit of 97%. No data were qualified, as all results for this compound were non-detect.
- The MS/MSD RPD for 1,4-Dichlorobenzene in sample MW47-09 was 44, which is above the upper control limit of 28%. All results were qualified as estimated "J".

Contaminants were detected below the CRDL in some blanks and the associated sample results were flagged "B", by the laboratory, to indicate the possibility of blank contamination. Because all detections in blanks were below reporting limits, blank contamination is not expected to affect data usability.

Pesticides / PCBs

Major Deficiencies: There were no major deficiencies identified during the validation process.

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

- The MS/MSD RPD for gamma-BHC(lindane) in sample MW47-09 was 34, which is above the upper control limit of 15%. All results were qualified as estimated "J".
- The MS/MSD RPD for Heptachlor in sample MW47-09 was 32, which is above the upper control limit of 20%. All results were qualified as estimated "J".
- The MS/MSD RPD for Aldrin in sample MW47-09 was 30, which is above the upper control limit of 22%. All results were qualified as estimated "J".
- The MS/MSD RPD for Dieldrin in sample MW47-09 was 25, which is above the upper control limit of 18%. All results were qualified as estimated "J".
- The MS/MSD RPD for Endrin in sample MW47-09 was 29, which is above the upper control limit of 21%. All results were qualified as estimated "J".

Contaminants were detected below the CRDL in some blanks and the associated sample results were flagged "B", by the laboratory, to indicate the possibility of blank contamination. Because all detections in blanks were below reporting limits, blank contamination is not expected to affect data usability.

Inorganics / Cyanide

Major Deficiencies: The following paragraphs describe the major deficiencies identified during the validation process.

Holding Time

- All samples analyzed for mercury exceeded the holding time requirement of 28 days by twelve days. All positive results were qualified as "J" and all non-detects as "UJ" with a low bias.
- All samples analyzed for cyanide exceeded the holding time requirement of 14 days by 26 days. All positive results were qualified as "J" and all non-detects as "UJ" with a low bias.

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

Continuing Calibration Blanks

- Several continuing calibration blanks (CCBs) had negative detections of calcium, sodium, and zinc indicating a possible negative bias in associated sample results. All associated positive results for those analytes were qualified as estimated "J", with a low bias, unless the bias was insignificant compared to the sample concentration. In the case of ND results, the PQL was qualified as estimated "UJ", with a low bias.

Several samples contained detected concentrations of target analytes at concentrations between the instrument detection limit (IDL) and the contract required detection limit (CRDL). These were qualified as "B" by the laboratory, but during the validation process these qualifications were changed to a "J" flag which indicates an estimate. Table 1-2 summarizes the affected samples and analytes.

DATA QUALITY OBJECTIVES

The following is a summary of the data quality objectives that were evaluated during the data validation process.

Reporting Limits: Reporting limits were met for all analyses with the following exception.

- For VOCs: Reporting limits were met without exception. No dilutions were necessary.
- For SVOCs: Reporting limits were met without exception. No dilutions were necessary.
- For Pesticides: Reporting limits were met without exception. No dilutions were necessary.
- For Metals and Cyanide: Reporting limits were met without exception. No dilutions were necessary.

Accuracy

Laboratory Control Sample: Validation of the LCS was not performed for the organic analyses because the data was not provided by the laboratory and is not required per OLM 3.0. The LCS for the inorganic analyses were within control limits and analyzed at the correct frequency.

Surrogates: The surrogate results were within laboratory specified limits with the exceptions noted previously.

Matrix Spike / Matrix Spike Duplicate: The MS/MSD results were within laboratory specified limits with the exceptions noted previously.

Precision

Field Duplicates: No field duplicates were present in this SDG.

Laboratory Duplicate Sample: No laboratory duplicate analyses were performed in this SDG.

The overall results were acceptable, indicating that sampling and analytical precision objectives were met for the sampling event.

Completeness

The data package was complete for the requested analyses. No results were considered unusable. The completeness was 100 percent, which meets the completeness objective of 95 percent.

Representativeness:

Trip blanks TB03-09 and TB04-09 had no target analytes detected above the reporting limit for all analyses, indicating that the representativeness objectives for the sampling event were met.

Field blanks FB03-09 and FB05-09 had acetone and methylene chloride detections above the reporting limit. Associated positive results were qualified as contaminated "B". Samples MW37-09, MW23-09, and TB04-09 were affected.

Comparability:

All data were reported in similar units to facilitate comparison of results within the data packages. Samples arrived at the laboratory at 4°C, which is within the limits of 2-6°C. It should be noted that several samples were analyzed by EPA method CLP-Inorganics OLM 4.0 were analyzed after the recommended holding time. Because of the holding time exceedence, comparability might be affected.

As a result of this evaluation, all data within this SDG for wells at American Chemical Service are of known and acceptable quality in relation to the DQOs of this project. Although significant qualifications were required due to holding time violations, the data are considered usable as qualified for the intended purposes. Table 1-1 and 1-2 summarize the validation and laboratory qualifications for this sampling event.

REFERENCES

Pre-Design Activities Quality Assurance Project Plan, American Chemical Service, Inc. NPL Site, Griffith Indiana (MW, 1995).

National Functional Guidelines for Organic Data Review (USEPA, 1994a).

National Functional Guidelines for Inorganic Data Review (USEPA, 1994b).

ID	Field ID	Analysis	Analyte	result	unit	flag	bias	comment
SDG 5	FB03-09RE	VOCs	all other volatiles	all	ug/L	J/UJ	low	run 2.5 hours past hold time
SDG 5	FB03-09RE	VOCs	Methylene Chloride	44	ug/L	J	low	run 2.5 hours past hold time
SDG 5	FB03-09	VOCs	all other volatiles	all	ug/L	J	high	DCE surrogate out high at 124%
SDG 5	FB03-09	VOCs	Methylene Chloride	49	ug/L	J	high	DCE surrogate out high at 124%
SDG 5	FB03-09	VOCs	Acetone	10	ug/L	J	low	Continuing calibration %D is -30.3%, ICAL %RSD is 51.5
SDG 5	TB04-09	VOCs	Acetone	<10	ug/L	UJ	low	Continuing calibration %D is -30.3%
SDG 5	MW37-09	VOCs	Acetone	5	ug/L	J	low	Continuing calibration %D is -30.3%, ICAL %RSD is 51.5
SDG 5	MW23-09	VOCs	Acetone	7	ug/L	J	high	Continuing calibration %D is -30.3%, ICAL %RSD is 51.5
SDG 5	FB05-09	VOCs	Acetone	23	ug/L	J	high	ICAL %RSD is 51.5
SDG 5	MW43-09	SVOCs	all semivolatiles	ND	ug/L	UJ	low	2-Fluorobiphenyl surrogate out at 32% (35-114)
SDG 5	MW43-09	SVOCs	all semivolatiles	ND	ug/L	UJ	low	2-Chlorophenol-d4 out at 32% (33-110) advisory
SDG 5	MW47-09	SVOCs	4-Nitrophenol	<10	ug/L	UJ	high	MS/MSD recovery 97%/94%, (10-80)
SDG 5	MW47-09	SVOCs	4-Chloro-3-methylphenol	<10	ug/L	UJ	high	MSD recovery 99% (23-97)
SDG 5	MW47-09	SVOCs	1,4-Dichlorobenzene	<10	ug/L	UJ	NDT	MS/MSD RPD is 44, limit is 28
SDG 5	FB03-09	SVOCs	Pentachlorophenol	<25	ug/L	UJ	low	Continuing calibration %RSD -38.7%
SDG 5	MW23-09	SVOCs	Pentachlorophenol	<25	ug/L	UJ	low	Continuing calibration %RSD -38.7%
SDG 5	MW37-09	SVOCs	Pentachlorophenol	<26	ug/L	UJ	low	Continuing calibration %RSD -38.7%
SDG 5	MW24-09	SVOCs	Pentachlorophenol	<25	ug/L	UJ	low	Continuing calibration %RSD -38.7% , Nitrobenzene-d5 surrogate out at 120% (35-114), 2,4,6-Tribromophenol surrogate out at 131% (10-123)
SDG 5	FB05-09	SVOCs	Pentachlorophenol	<27	ug/L	UJ	low	Continuing calibration %RSD -38.7%, Nitrobenzene-d5 surrogate out at 120% (35-114)
SDG 5	MW29-09	SVOCs	Pentachlorophenol	<25	ug/L	UJ	low	Continuing calibration %RSD -38.7%
SDG 5	FB04-09	SVOCs	Pentachlorophenol	<25	ug/L	UJ	low	Continuing calibration %RSD -38.7%, Nitrobenzene-d5 surrogate out at 130% (35-114)
SDG 5	MW47-09	Pesticides	gamma-BHC (Lindane)	<.049	ug/L	UJ	NDT	MS/MSD RPD is 34, limit is 15

ID	Field ID	Analysis	Analyte	result	unit	flag	bias	comment
SDG 5	MW47-09	Pesticides	Heptachlor	<.049	ug/L	UJ	NDT	MS/MSD RPD is 32, limit is 20
SDG 5	MW47-09	Pesticides	Aldrin	<.049	ug/L	UJ	NDT	MS/MSD RPD is 30, limit is 22
SDG 5	MW47-09	Pesticides	Dieldrin	<0.98	ug/L	UJ	NDT	MS/MSD RPD is 25, limit is 18
SDG 5	MW47-09	Pesticides	Endrin	<0.98	ug/L	UJ	NDT	MS/MSD RPD is 29, limit is 21
SDG5	FB02-09	VOCs	Methylene Chloride	8	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	Acetone	7	ug/L	JB	high	Reported between MDL and CRDL, ICAL %RSD is 51.5
		VOCs	Benzene	4	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	Toluene	3	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	1,2-Dichloroethene	2	ug/L	J	NDT	Reported between MDL and CRDL
	FB03-09	VOCs	Chloroform	1	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	2-Butanone	2	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	4-Methyl-2-pentanone	1	ug/L	J	NDT	Reported between MDL and CRDL
	FB03-09RE	VOCs	Acetone	10	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	Chloroform	1	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	2-Butanone	2	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	4-Methyl-2-pentanone	1	ug/L	J	NDT	Reported between MDL and CRDL
	FB04-09	VOCs	Methylene Chloride	2	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	Acetone	3	ug/L	J	high	Reported between MDL and CRDL, ICAL %RSD is 51.5
	FB05-09	VOCs	Chloroform	1	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	2-Butanone	3	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	4-Methyl-2-pentanone	2	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	Toluene	2	ug/L	J	NDT	Reported between MDL and CRDL
	M1S-09	VOCs	Benzene	2	ug/L	J	NDT	Reported between MDL and CRDL
	MW23-09	VOCs	Methylene Chloride	4	ug/L	JB	high	Reported between MDL and CRDL, Blank contamination from FB03-09.
		VOCs	Acetone	7	ug/L	J	NDT	Reported between MDL and CRDL
	MW24-09	VOCs	Methylene Chloride	4	ug/L	JB	high	Reported between MDL and CRDL, Blank contamination from FB05-09.
		VOCs	Acetone	4	ug/L	JB	high	Reported between MDL and CRDL, ICAL %RSD is 51.5, Blank contamination from FB05-09.
	MW29-09	VOCs	Methylene Chloride	2	ug/L	J	NDT	Reported between MDL and CRDL

ID	Field ID	Analysis	Analyte	result	unit	flag	bias	comment
		VOCs	Acetone	2	ug/L	J	high	Reported between MDL and CRDL, ICAL %RSD is 51.5
	MW30-09	VOCs	Methylene Chloride	4	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	Acetone	3	ug/L	J	high	Reported between MDL and CRDL, ICAL %RSD is 51.5
	MW33-09	VOCs	Methylene Chloride	9	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	Acetone	8	ug/L	JB	high	Reported between MDL and CRDL, ICAL %RSD is 51.5
		VOCs	2-Butanone	1	ug/L	JB	NDT	Reported between MDL and CRDL
	MW37-09	VOCs	Methylene Chloride	4	ug/L	JB	high	Reported between MDL and CRDL, Blank contamination from FB03-09.
		VOCs	Acetone	5	ug/L	J	NDT	Reported between MDL and CRDL
	MW43-09	VOCs	Methylene Chloride	2	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	Acetone	4	ug/L	J	high	Reported between MDL and CRDL, ICAL %RSD is 51.5
	MW46-09	VOCs	Methylene Chloride	3	ug/L	J	NDT	Reported between MDL and CRDL
	MW47-09	VOCs	Methylene Chloride	2	ug/L	J	NDT	Reported between MDL and CRDL
	MW51-09	VOCs	Methylene Chloride	8	ug/L	J	NDT	Reported between MDL and CRDL
	TB03-09	VOCs	Methylene Chloride	3	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	Acetone	2	ug/L	J	high	Reported between MDL and CRDL, ICAL %RSD is 51.5
	TB04-09	VOCs	Methylene Chloride	3	ug/L	JB	high	Reported between MDL and CRDL, Blank contamination from FB03-09.
	MW47-09MS	VOCs	Methylene Chloride	2	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	Acetone	2	ug/L	J	NDT	Reported between MDL and CRDL
	MW47-09MSD	VOCs	Methylene Chloride	2	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	Acetone	1	ug/L	J	NDT	Reported between MDL and CRDL
	FB02-09	SVOCs	bis(2-Ethylhexyl) phthalate	2	ug/L	J	high	Reported between MDL and CRDL, Nitrobenzene-d5 surrogate out at 123% (35-114)
	MW29-09	SVOCs	bis(2-Ethylhexyl) phthalate	1	ug/L	JB	NDT	Reported between MDL and CRDL
	MW30-09	SVOCs	bis(2-Ethylhexyl) phthalate	1	ug/L	J	NDT	Reported between MDL and CRDL
	MW33-09	SVOCs	bis(2-Ethylhexyl) phthalate	1	ug/L	J	NDT	Reported between MDL and CRDL

ID	Field ID	Analysis	Analyte	result	unit	flag	bias	comment
	FB03-09	Pesticides	delta-BHC	0.0017	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			Aldrin	0.0046	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			Methoxychlor	0.01	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			gamma-Chlordane	0.0015	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
	FB04-09		beta-BHC	0.02	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			delta-BHC	0.0012	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
	FB05-09		beta-BHC	0.0079	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			Endrin aldehyde	0.0049	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			alpha-Chlordane	0.0015	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
	MW23-09		Heptachlor	0.0022	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
	MW24-09		beta-BHC	0.0096	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			delta-BHC	0.003	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
	MW29-09		delta-BHC	0.0045	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			gamma-Chlordane	0.0018	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
	MW30-09		4,4'-DDT	0.0066	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
	MW33-09		beta-BHC	0.017	ug/L	JPB	NDT	Second column delta >25%, reported between MDL and CRDL, associated blank contamination

ID	Field ID	Analysis	Analyte	result	unit	flag	bias	comment
			gamma-BHC (Lindane)	0.0025	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			Heptachlor	0.007	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			4,4' DDD	0.0024	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			Methoxychlor	0.0036	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			alpha-Chlordane	0.0014	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
	MW37-09		beta-BHC	0.019	ug/L	J	NDT	Reported between MDL and CRDL
	MW43-09		beta-BHC	0.0045	ug/L	JB	NDT	Reported between MDL and CRDL, associated blank contamination.
	MW51-09		alpha-BHC	0.0015	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
	MW47-09MS		4,4'-DDE	0.0028	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			4,4'-DDD	0.0037	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			Endrin ketone	0.03	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			Endrin aldehyde	0.03	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
	MW47-09MSD		4,4'-DDE	0.0023	ug/L	J	NDT	Reported between MDL and CRDL
			4,4'-DDD	0.0046	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			Endrin ketone	0.035	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
			Endrin aldehyde	0.034	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
	FB02-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L	UJ	Low	14 day holding time exceeded by 26 days
	FB03-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L	UJ	Low	14 day holding time exceeded by 26 days

ID	Field ID	Analysis	Analyte	result	unit	flag	bias	comment
	FB04-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L	UJ	Low	14 day holding time exceeded by 26 days
	FB05-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L	UJ	Low	14 day holding time exceeded by 26 days
	MW23-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L	UJ	Low	14 day holding time exceeded by 26 days
	MW24-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
	MW29-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L	UJ	Low	14 day holding time exceeded by 26 days
	MW30-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L	UJ	Low	14 day holding time exceeded by 26 days
	MW33-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L	UJ	Low	14 day holding time exceeded by 26 days
	MW37-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
	MW43-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	40.6	ug/L	J	Low	14 day holding time exceeded by 26 days
	MW46-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L	UJ	Low	14 day holding time exceeded by 26 days
	MW47-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L	UJ	Low	14 day holding time exceeded by 26 days
	MW51-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L	UJ	Low	14 day holding time exceeded by 26 days
	FB02-09	Metals	Barium	0.92	ug/L	B	NDT	Reported between the MDL and CRDL
			Beryllium	0.24	ug/L	B	NDT	Reported between the MDL and CRDL
			Calcium	251	ug/L	B	NDT	Reported between the MDL and CRDL
			Chromium	1.2	ug/L	B	NDT	Reported between the MDL and CRDL
			Iron	38	ug/L	B	NDT	Reported between the MDL and CRDL
			Magnesium	93.1	ug/L	B	NDT	Reported between the MDL and CRDL
			Manganese	0.81	ug/L	B	NDT	Reported between the MDL and CRDL
			Sodium	846	ug/L	B	NDT	Reported between the MDL and CRDL
			Zinc	5.1	ug/L	B	NDT	Reported between the MDL and CRDL
	FB03-09		Barium	0.46	ug/L	B	NDT	Reported between the MDL and CRDL
			Beryllium	0.23	ug/L	B	NDT	Reported between the MDL and CRDL
			Calcium	82.3	ug/L	B	NDT	Reported between the MDL and CRDL

ID	Field ID	Analysis	Analyte	result	unit	flag	bias	comment
			Chromium	1.4	ug/L	B	NDT	Reported between the MDL and CRDL
			Iron	80.6	ug/L	B	NDT	Reported between the MDL and CRDL
			Magnesium	38.5	ug/L	B	NDT	Reported between the MDL and CRDL
			Manganese	0.95	ug/L	B	NDT	Reported between the MDL and CRDL
			Nickel	1.1	ug/L	B	NDT	Reported between the MDL and CRDL
			Sodium	2220	ug/L	B	NDT	Reported between the MDL and CRDL
			Zinc	1.5	ug/L	B	NDT	Reported between the MDL and CRDL
	FB04-09		Antimony	10.1	ug/L	B	NDT	Reported between the MDL and CRDL
			Barium	0.52	ug/L	B	NDT	Reported between the MDL and CRDL
			Beryllium	0.32	ug/L	B	NDT	Reported between the MDL and CRDL
			Calcium	59.4	ug/L	B	NDT	Reported between the MDL and CRDL
			Magnesium	17.3	ug/L	B	NDT	Reported between the MDL and CRDL
			Manganese	0.3	ug/L	B	NDT	Reported between the MDL and CRDL
			Silver	0.66	ug/L	B	NDT	Reported between the MDL and CRDL
			Sodium	559	ug/L	B	NDT	Reported between the MDL and CRDL
			Zinc	2.2	ug/L	B	NDT	Reported between the MDL and CRDL
	FB05-09		Barium	1.9	ug/L	B	NDT	Reported between the MDL and CRDL
			Beryllium	0.1	ug/L	B	NDT	Reported between the MDL and CRDL
			Chromium	1.4	ug/L	B	NDT	Reported between the MDL and CRDL
			Magnesium	12.4	ug/L	B	NDT	Reported between the MDL and CRDL
			Manganese	0.33	ug/L	B	NDT	Reported between the MDL and CRDL
			Silver	0.47	ug/L	B	NDT	Reported between the MDL and CRDL
			Sodium	231	ug/L	B	NDT	Reported between the MDL and CRDL
	MW11-09		Arsenic	4.2	ug/L	B	NDT	Reported between the MDL and CRDL
			Lead	1.7	ug/L	B	NDT	Reported between the MDL and CRDL
	MW23-09		Antimony	2.3	ug/L	B	NDT	Reported between the MDL and CRDL
			Barium	116	ug/L	B	NDT	Reported between the MDL and CRDL
			Beryllium	0.37	ug/L	B	NDT	Reported between the MDL and CRDL
			Cobalt	1.1	ug/L	B	NDT	Reported between the MDL and CRDL
			Copper	4.7	ug/L	B	NDT	Reported between the MDL and CRDL
			Lead	2.9	ug/L	B	NDT	Reported between the MDL and CRDL
			Nickel	10.6	ug/L	B	NDT	Reported between the MDL and CRDL
			Potassium	2220	ug/L	B	NDT	Reported between the MDL and CRDL
			Vanadium	3.3	ug/L	B	NDT	Reported between the MDL and CRDL

ID	Field ID	Analysis	Analyte	result	unit	flag	bias	comment
			Zinc	8.6	ug/L	B	NDT	Reported between the MDL and CRDL
	MW24-09		Aluminum	157	ug/L	B	NDT	Reported between the MDL and CRDL
			Antimony	3.7	ug/L	B	NDT	Reported between the MDL and CRDL
			Barium	199	ug/L	B	NDT	Reported between the MDL and CRDL
			Beryllium	0.18	ug/L	B	NDT	Reported between the MDL and CRDL
			Cadmium	0.84	ug/L	B	NDT	Reported between the MDL and CRDL
			Chromium	5.1	ug/L	B	NDT	Reported between the MDL and CRDL
			Copper	2.9	ug/L	B	NDT	Reported between the MDL and CRDL
			Nickel	4	ug/L	B	NDT	Reported between the MDL and CRDL
			Potassium	1130	ug/L	B	NDT	Reported between the MDL and CRDL
			Vanadium	0.93	ug/L	B	NDT	Reported between the MDL and CRDL
			Zinc	1.5	ug/L	B	NDT	Reported between the MDL and CRDL
			Cyanide	8.1	ug/L	JB	low	Reported between the MDL and CRDL, 14 day holding time exceeded by 26 days.
	MW29-09		Barium	116	ug/L	J	NDT	Reported between the MDL and CRDL
			Beryllium	0.29	ug/L	J	NDT	Reported between the MDL and CRDL
			Cadmium	0.6	ug/L	J	NDT	Reported between the MDL and CRDL
			Cobalt	1.1	ug/L	J	NDT	Reported between the MDL and CRDL
			Copper	8.1	ug/L	J	NDT	Reported between the MDL and CRDL
			Potassium	2760	ug/L	J	NDT	Reported between the MDL and CRDL
			Silver	0.45	ug/L	J	NDT	Reported between the MDL and CRDL
			Vanadium	1.2	ug/L	J	NDT	Reported between the MDL and CRDL
			Zinc	5.6	ug/L	J	NDT	Reported between the MDL and CRDL
	MW30-09		Aluminum	109	ug/L	J	NDT	Reported between the MDL and CRDL
			Antimony	2.6	ug/L	J	NDT	Reported between the MDL and CRDL
			Beryllium	0.24	ug/L	J	NDT	Reported between the MDL and CRDL
			Cadmium	0.56	ug/L	J	NDT	Reported between the MDL and CRDL
			Chromium	3.9	ug/L	J	NDT	Reported between the MDL and CRDL
			Cobalt	5.3	ug/L	J	NDT	Reported between the MDL and CRDL
			Copper	4.4	ug/L	J	NDT	Reported between the MDL and CRDL
			Nickel	10.6	ug/L	J	NDT	Reported between the MDL and CRDL
			Potassium	2230	ug/L	J	NDT	Reported between the MDL and CRDL
			Zinc	2.3	ug/L	J	NDT	Reported between the MDL and CRDL

ID	Field ID	Analysis	Analyte	result	unit	flag	bias	comment
	MW33-09		Aluminum	90.2	ug/L	J	NDT	Reported between the MDL and CRDL
			Antimony	2.3	ug/L	J	NDT	Reported between the MDL and CRDL
			Beryllium	0.4	ug/L	J	NDT	Reported between the MDL and CRDL
			Cadmium	1.5	ug/L	J	NDT	Reported between the MDL and CRDL
			Chromium	5	ug/L	J	NDT	Reported between the MDL and CRDL
			Cobalt	2.9	ug/L	J	NDT	Reported between the MDL and CRDL
			Copper	4.7	ug/L	J	NDT	Reported between the MDL and CRDL
			Nickel	9.2	ug/L	J	NDT	Reported between the MDL and CRDL
			Silver	0.46	ug/L	J	NDT	Reported between the MDL and CRDL
			Vanadium	0.94	ug/L	J	NDT	Reported between the MDL and CRDL
			Zinc	1.4	ug/L	J	NDT	Reported between the MDL and CRDL
	MW37-09		Barium	24.2	ug/L	J	NDT	Reported between the MDL and CRDL
			Beryllium	0.37	ug/L	J	NDT	Reported between the MDL and CRDL
			Chromium	3.7	ug/L	J	NDT	Reported between the MDL and CRDL
			Cobalt	0.99	ug/L	J	NDT	Reported between the MDL and CRDL
			Copper	7.1	ug/L	J	NDT	Reported between the MDL and CRDL
			Lead	1.3	ug/L	J	NDT	Reported between the MDL and CRDL
			Nickel	8.2	ug/L	J	NDT	Reported between the MDL and CRDL
			Potassium	1120	ug/L	J	NDT	Reported between the MDL and CRDL
			Vanadium	1.7	ug/L	J	NDT	Reported between the MDL and CRDL
			Zinc	2.7	ug/L	J	NDT	Reported between the MDL and CRDL
			Cyanide	6.8	ug/L	J	low	Reported between the MDL and CRDL, 14 day holding time exceeded by 26 days.
	MW43-09		Barium	58	ug/L	J	NDT	Reported between the MDL and CRDL
			Beryllium	0.32	ug/L	J	NDT	Reported between the MDL and CRDL
			Chromium	3.4	ug/L	J	NDT	Reported between the MDL and CRDL
			Cobalt	2.1	ug/L	J	NDT	Reported between the MDL and CRDL
			Copper	1.3	ug/L	J	NDT	Reported between the MDL and CRDL
			Nickel	4.3	ug/L	J	NDT	Reported between the MDL and CRDL
			Potassium	465	ug/L	J	NDT	Reported between the MDL and CRDL
			Vanadium	1.6	ug/L	J	NDT	Reported between the MDL and CRDL
	MW46-09		Aluminum	39.2	ug/L	J	NDT	Reported between the MDL and CRDL
			Barium	146	ug/L	J	NDT	Reported between the MDL and CRDL

ID	Field ID	Analysis	Analyte	result	unit	flag	bias	comment
			Beryllium	0.21	ug/L	J	NDT	Reported between the MDL and CRDL
			Potassium	798	ug/L	J	NDT	Reported between the MDL and CRDL
			Vanadium	1.8	ug/L	J	NDT	Reported between the MDL and CRDL
			Zinc	2.2	ug/L	J	NDT	Reported between the MDL and CRDL
	MW47-09		Aluminum	130	ug/L	J	NDT	Reported between the MDL and CRDL
			Antimony	2.3	ug/L	J	NDT	Reported between the MDL and CRDL
			Barium	6.2	ug/L	J	NDT	Reported between the MDL and CRDL
			Beryllium	0.28	ug/L	J	NDT	Reported between the MDL and CRDL
			Chromium	3.2	ug/L	J	NDT	Reported between the MDL and CRDL
			Cobalt	0.74	ug/L	J	NDT	Reported between the MDL and CRDL
			Copper	1.4	ug/L	J	NDT	Reported between the MDL and CRDL
			Lead	1.6	ug/L	J	NDT	Reported between the MDL and CRDL
			Magnesium	2480	ug/L	J	NDT	Reported between the MDL and CRDL
			Manganese	5.4	ug/L	J	NDT	Reported between the MDL and CRDL
			Nickel	1.8	ug/L	J	NDT	Reported between the MDL and CRDL
			Potassium	613	ug/L	J	NDT	Reported between the MDL and CRDL
			Silver	0.58	ug/L	J	NDT	Reported between the MDL and CRDL
			Sodium	4900	ug/L	J	NDT	Reported between the MDL and CRDL
			Vanadium	0.7	ug/L	J	NDT	Reported between the MDL and CRDL
	MW51-09		Aluminum	166	ug/L	J	NDT	Reported between the MDL and CRDL
			Beryllium	0.44	ug/L	J	NDT	Reported between the MDL and CRDL
			Cadmium	0.81	ug/L	J	NDT	Reported between the MDL and CRDL
			Chromium	1.6	ug/L	J	NDT	Reported between the MDL and CRDL
			Cobalt	0.76	ug/L	J	NDT	Reported between the MDL and CRDL
			Copper	1.7	ug/L	J	NDT	Reported between the MDL and CRDL
			Nickel	3.1	ug/L	J	NDT	Reported between the MDL and CRDL
			Potassium	2410	ug/L	J	NDT	Reported between the MDL and CRDL
			Selenium	3.1	ug/L	J	NDT	Reported between the MDL and CRDL
			Vanadium	0.77	ug/L	J	NDT	Reported between the MDL and CRDL
	FB02-09		Calcium	251	ug/L	J	low	CCB conc. Of -49.98
	MW51-09		Zinc	1.1	ug/L	UJ	low	CCB conc. Of -5.19
	MW30-09		Zinc	2.3	ug/L	J	low	CCB conc. Of -5.19
	MW33-09		Zinc	1.4	ug/L	J	low	CCB conc. Of -5.19
	MW46-09		Zinc	2.2	ug/L	J	low	CCB conc. Of -5.19

ID	Field ID	Analysis	Analyte	result	unit	flag	bias	comment
	MW43-09		Zinc	1.1	ug/L	UJ	low	CCB conc. Of -5.19
	FB03-09		Calcium	82.3	ug/L	J	low	CCB conc. Of -42.52
			Sodium	2220	ug/L	J	low	CCB conc. Of -259.60
			Zinc	1.5	ug/L	J	low	CCB conc. Of -5.19
	MW37-09		Zinc	2.7	ug/L	J	low	CCB conc. Of -5.19
	MW23-09		Zinc	8.6	ug/L	J	low	CCB conc. Of -5.19
	MW24-09		Zinc	1.5	ug/L	J	low	CCB conc. Of -5.28
	FB04-09		Calcium	59.4	ug/L	J	low	CCB conc. Of -50.89
			Zinc	2.2	ug/L	J	low	CCB conc. Of -5.28
	MW29-09		Zinc	5.6	ug/L	J	low	CCB conc. Of -5.28
	FB05-09		Calcium	10.7	ug/L	UJ	low	CCB conc. Of -65.53
			Zinc	1.1	ug/L	UJ	low	CCB conc. Of -7.49

Notes:

B - Blank contamination possible
CCB - Continuing calibration blank
CCAL - Continuing calibration
CRDL - Contract required detection limit
ICAL - Initial calibration
J - Estimated
MDL - Method detection limit
MS/MSD - Matrix Spike/Matrix Spike Duplicate
P - Value for which the second column result was different by more than 25%
RSD - Relative standard deviation
ug/L - Micrograms per liter
UJ - Practical quantitation limit (PQL) is estimated

MEMORANDUM

MONTGOMERY WATSON

To:	Trisha Woolslayer, MW	**Date:**	August 24, 1999
From:	Gilbert Dimidjian, MW	**Job No.:**	1252042
Subject:	Data Validation for American Chemical Service (ACS). Griffith, Indiana. June 1999	**SDG:**	007

INTRODUCTION

The following text is based on the validation of water samples collected at American Chemical Service, Inc. in June of 1999.

Five water samples and two field quality assurance samples were analyzed by CompuChem Laboratories, Cary, North Carolina for the following parameters:

- VOA's by CLP – OLM 3.0 (samples MW13-09, MW13-99, MW 53-09, MW52-09, MW49-09, MW34-09, TB05-09)
- SVOA's by CLP – OLM 3.0 (samples MW13-09, MW13-99, MW53-09, MW52-09, MW49-09, MW34-09)
- Pesticides/PCB's by CLP – OLM 3.0 (samples MW13-09, MW13-99, MW53-09, MW52-09, MW49-09)
- Inorganics by CLP – ILM04.0 (samples MW13-09, MW13-99, MW53-09, MW52-09, MW49-09)
- Cyanide by CLP – ILM04.0 (samples MW13-09, MW13-99, MW53-09, MW52-09, MW49-09)

Data validation was conducted in accordance with procedures specified in *Pre-Design Activities Quality Assurance Project Plan (MW, 1995), National Functional Guidelines for Organic Data Review (USEPA, 1994a), and National Functional Guidelines for Inorganic Data Review (USEPA, 1994b).*

The following field quality control samples were collected during the June 1999 sampling round:

- One field duplicate: MW13-99 duplicate of MW13-09; and
- One trip blank: TB05-09

This memorandum contains a narrative summarizing the data quality objectives specified in the work plan, and provides a table of qualified data (Table 1-1 and 1-2) and supporting validation documentation (Attachment A).

SUMMARY

This section describes the quality control parameters reviewed during validation, summarizes the data quality objectives as a result of the validation and provides a summary of the deficiencies and qualification applied. The following paragraphs describe deficiencies that were identified which resulted in qualification of the sample results. Each analyses is separated into sections for clarity.

Volatile Organic Componds

Major Deficiencies: The following paragraphs describe the major deficiencies identified during the validation process.

Holding Time

- All samples for this analysis exceeded the holding time requirement of 14 days by one day. All positive results were qualified as "J" and all non-detects as "UJ" with a low bias.

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

Initial Calibration

- The initial calibration (on 6/20/99;1249) percent relative standard deviation (RSD) for acetone (51.5 percent) were above the control limit of 30 percent. All positive results were qualified as an estimate "J" for acetone. The associated samples were MW13-09, MW13-99, MW 53-09, MW52-09, MW49-09, MW34-09, and TB05-09.

Continuing Calibration

- The continuing calibration CS990629B57 for 2-butanone (30.4 percent) and 1,1,2,2-tetrachloroethane (31.3 percent) had a percent difference that exceeded the control limit of ±25 percent. All positive results were qualified as "J" and all non-detects as "UJ". The associated sample was MW49-09.

Semi-Volatile Organic Compounds

Major Deficiencies: There were no major deficiencies identified during the validation process.

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

Initial Calibration

- The initial calibration (on 6/30/99;2221) %RSD for 2,4-dinitrophenol (36.1 percent) exceeded the control limit of 30 percent. All positive results were qualified as "J"

and all non-detects as "UJ". The associated samples were MW13-99, MW13-09, MW52-09, MW53-09, and MW49-09.

Continuing Calibration

- Continuing calibration HG990714A66 had a percent difference for 3,3-dichlorobenzidine (28.2 percent) and 2,4-dinitrophenol (34.6 percent) that exceeded the control limit of 25 percent. All positive results were qualified as "J" and all non-detects as "UJ". The associated samples were MW13-99, MW13-09, and MW52-09.

- Continuing calibration HG990715A66 had a percent difference for 2,4-dinitrophenol (31.6 percent), 2,4-dinitrotoluene (28.4 percent), and 4,6-dinitro-2-methylphenol (25.5 percent) that exceeded the control limit of 25 percent. All positive results were qualified as "J" and all non-detects as "UJ". The associated samples were MW53-09 and MW49-09.

- Continuing calibration HG990722B66 had a percent difference for 4-nitroaniline (58.1 percent) and 3,3-dichlorobenzidine (26.6 percent) that exceeded the control limit of 25 percent. No qualification was required because there were no associated samples.

Pesticides / PCBs

Major Deficiencies: There were no major deficiencies identified during the validation process.

Minor Deficiencies: Several minor deficiencies are outlined in the Data Quality Objectives section.

Inorganics / Cyanide

Major Deficiencies: The following paragraphs describe the major deficiencies identified during the validation process.

Holding Time

- All samples analyzed for mercury exceeded the holding time requirement of 28 days by eight days. All positive results were qualified as "J" and all non-detects as "UJ" with a low bias.

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

Serial Dilution

- The percent difference for potassium (20.1 percent) exceeded the control limit of ±10% in sample MW49-09L. All positive results were qualified as estimated "J".

Due to a laboratory software limitation the interference check (ICS) recoveries for one sample was not reported (7/22/99, 9:09). This had to be hand calculated and verified by the reviewer.

Several samples contained detected concentrations of target analytes at concentrations between the instrument detection limit (IDL) and the contract required detection limit (CRDL). These were qualified as "B" by the laboratory, but during the validation process these qualifications were changed to a "J" flag which indicates an estimate. Table 1-2 summarizes the affected samples and analytes.

DATA QUALITY OBJECTIVES

The following is a summary of the data quality objectives that were evaluated during the data validation process.

Reporting Limits: Reporting limits were met for all analyses with the following exception.

- For VOCs: Reporting limits were met with the exception of cases in which dilution was necessary. Original, out-of-calibration range data have been included for confirmation of original detection limits and detections, when available. Sample MW52-09 was only analyzed as a dilution due to a high analyte concentration; therefore, no original out of calibration range data was included with this sample package. No data were qualified as a result

Accuracy

Laboratory Control Sample: Validation of the LCS was not performed for the organic analyses because the data was not provided by the laboratory and is not required per OLM 3.0. The LCS for the inorganic analyses were within control limits and analyzed at the correct frequency.

Surrogates: The surrogate results were within laboratory specified limits with the following exceptions.

- For SVOCs: Surrogate 2,4,6-tribromophenol had recoveries above the upper control limit with a high bias. No qualification was required because it meet criteria set forth by the method.

- For Pesticides/PCBs: Surrogate recoveries for DCB were below the lower control limits but were within 10 and 30 percent. All compounds with detections were qualified as "J" and non-detects "UJ". The associated samples include MW53-09, MW52-09, and MW49-09.

Matrix Spike / Matrix Spike Duplicate: The MS/MSD results were within laboratory specified limits with the following exceptions.

- For SVOCs: MS/MSD recoveries exceeded the upper control limits, with a high bias. No qualification was required.

- For Pesticides/PCBs: MS recoveries for various compounds were below control limits, which represented a bias low. All associated data with positive results were qualified as "J" and non-detects were qualified as "UJ". Surrogates had poor recoveries and the RPD were out of control as well.

Precision

Field Duplicates: Field duplicate results were acceptable.

Laboratory Duplicate Sample: For inorganics / cyanide: Lab duplicate MW49-09D had RPDs which exceeded the control limit ranges for antimony, beryllium, cobalt, and copper. All positive results were qualified as estimated "J".

The overall results were acceptable, indicating that sampling and analytical precision objectives were met for the sampling event.

Completeness

The data package was complete for the requested analyses. No results were considered unusable. The completeness was 100 percent, which meets the completeness objective of 95 percent.

Representativeness:

Trip blank TB05-99, had no target analytes detected above the reporting limit for all analyses, indicating that the representativeness objectives for the sampling event were met.

Comparability:

All data were reported in similar units to facilitate comparison of results within the data packages. Samples arrived at the laboratory at 4°C, which is within the limits of 2-6°C. It should be noted that several samples were analyzed by EPA method CLP-VOA OLM3.0, CLP-SVOA OLM3.0, and CLP-Inorganics OLM 4.0 were analyzed after the recommended holding time. Because of the holding time exceedence, comparability might be affected.

As a result of this evaluation, all data within this SDG for wells at American Chemical Service are of known and acceptable quality in relation to the DQOs of this project. Although significant qualification were required due to holding time violation, the data are considered usable as qualified for the intended purposes. Table 1-1 and 1-2 summarizes the validation and laboratory qualifications for this sampling event.

REFERENCES

Pre-Design Activities Quality Assurance Project Plan, American Chemical Service, Inc. NPL Site, Griffith Indiana (MW, 1995).

National Functional Guidelines for Organic Data Review (USEPA, 1994a).

National Functional Guidelines for Inorganic Data Review (USEPA, 1994b).

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
945706	MW13-09 (VOC)	Chloromethane	10	µg/L	UJ	Low	Missed Holding Time
		Bromomethane	10	µg/L	UJ	Low	Missed Holding Time
		Vinyl Chloride	10	µg/L	UJ	Low	Missed Holding Time
		Chloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Methylene Chloride	10	µg/L	UJ	Low	Missed Holding Time
		Acetone	4	µg/L	JB	Low	Missed HT / IC %RSD>30% / blnk contam. / below RL
		Carbon Disulfide	10	µg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethene	10	µg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Chloroform	10	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		2-Butanone	10	µg/L	UJ	Low	Missed Holding Time
		1,1,1-Trichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Carbon Tetrachloride	10	µg/L	UJ	Low	Missed Holding Time
		Bromodichloromethane	10	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichloropropane	10	µg/L	UJ	Low	Missed Holding Time
		cis-1,3-Dichloropropene	10	µg/L	UJ	Low	Missed Holding Time
		Trichloroethene	10	µg/L	UJ	Low	Missed Holding Time
		Dibromochloromethane	10	µg/L	UJ	Low	Missed Holding Time
		1,1,2-Trichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Benzene	10	µg/L	UJ	Low	Missed Holding Time
		trans-1,3-Dichloropropene	10	µg/L	UJ	Low	Missed Holding Time
		Bromoform	10	µg/L	UJ	Low	Missed Holding Time
		4-Methyl-2-Pentanone	10	µg/L	UJ	Low	Missed Holding Time
		2-Hexanone	10	µg/L	UJ	Low	Missed Holding Time
		Tetrachloroethene	10	µg/L	UJ	Low	Missed Holding Time
		1,1,2,2-Tetrachloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Toluene	10	µg/L	UJ	Low	Missed Holding Time
		Chlorobenzene	10	µg/L	UJ	Low	Missed Holding Time

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW13-09	Ethylbenzene	10	µg/L	UJ	Low	Missed Holding Time
	(VOC)	Styrene	10	µg/L	UJ	Low	Missed Holding Time
		Xylene (total)	10	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethene (total)	10	µg/L	UJ	Low	Missed Holding Time
	(SVOC)	bis (2-ethylhexyl) phthalate	1	µg/L	J	NDT	Detected below RL
		2,4-Dinitrophenol	25	µg/L	UJ	High	IC > CL / CC > CL
		3,3-Dichlorobenzidine	10	µg/L	UJ	High	CC > CL
	(Pest/PCB)	alpha - BHC	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		beta - BHC	0.0055	µg/L	JP	Low	MS %R < CL / MSD RPD > CL />25% diff. btwn 2 columns/below RL
		delta - BHC	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		gamma - BHC (Lindane)	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Heptachlor	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Aldrin	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Heptachlor epoxide	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endosulfan I	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Dieldrin	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		4,4' - DDE	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endrin	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endosulfan II	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		4,4' - DDD	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endosulfan sulfate	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		4,4' - DDT	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Methoxychlor	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endrin ketone	0.0042	µg/L	JP	Low	MS %R < CL / MSD RPD > CL / >25% diff btwn 2 columns/below RL
		Endrin aldehyde	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		alpha - Chlordane	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		gamma - Chlordane	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Toxaphene	5.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW13-09 (Pest/PCB)	Arochlor - 1016	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1221	2.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1232	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1242	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1248	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1254	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1260	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
945669	MW13-99 (VOC)	Chloromethane	10	µg/L	UJ	Low	Missed Holding Time
		Bromomethane	10	µg/L	UJ	Low	Missed Holding Time
		Vinyl Chloride	10	µg/L	UJ	Low	Missed Holding Time
		Chloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Methylene Chloride	2	µg/L	J	Low	Missed Holding Time / blank contamination / below RL
		Acetone	2	µg/L	JB	Low	Missed HT / IC %RSD>30% / blnk contam. / below RL
		Carbon Disulfide	10	µg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethene	10	µg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Chloroform	10	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		2-Butanone	10	µg/L	UJ	Low	Missed Holding Time
		1,1,1-Trichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Carbon Tetrachloride	10	µg/L	UJ	Low	Missed Holding Time
		Bromodichloromethane	10	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichloropropane	10	µg/L	UJ	Low	Missed Holding Time
		cis-1,3-Dichloropropene	10	µg/L	UJ	Low	Missed Holding Time
		Trichloroethene	10	µg/L	UJ	Low	Missed Holding Time
		Dibromochloromethane	10	µg/L	UJ	Low	Missed Holding Time
		1,1,2-Trichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Benzene	10	µg/L	UJ	Low	Missed Holding Time

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW13-99	trans-1,3-Dichloropropene	10	µg/L	UJ	Low	Missed Holding Time
	(VOC)	Bromoform	10	µg/L	UJ	Low	Missed Holding Time
		4-Methyl-2-Pentanone	10	µg/L	UJ	Low	Missed Holding Time
		2-Hexanone	10	µg/L	UJ	Low	Missed Holding Time
		Tetrachloroethene	10	µg/L	UJ	Low	Missed Holding Time
		1,1,2,2-Tetrachloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Toluene	10	µg/L	UJ	Low	Missed Holding Time
		Chlorobenzene	10	µg/L	UJ	Low	Missed Holding Time
		Ethylbenzene	10	µg/L	UJ	Low	Missed Holding Time
		Styrene	10	µg/L	UJ	Low	Missed Holding Time
		Xylene (total)	10	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethene (total)	10	µg/L	UJ	Low	Missed Holding Time
	(SVOC)	2,4-Dinitrophenol	25	µg/L	UJ	High	IC > CL / CC > CL
		3,3-Dichlorobenzidine	10	µg/L	UJ	High	CC > CL
	(Pest/PCB)	alpha - BHC	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		beta - BHC	0.0067	µg/L	JP	Low	MS %R < CL / MSD RPD > CL />25% diff. btwn 2 columns/below RL
		delta - BHC	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		gamma - BHC (Lindane)	0.0043	µg/L	J	Low	MS %R < CL / MSD RPD > CL / below RL
		Heptachlor	0.0031	µg/L	JP	Low	MS %R < CL / MSD RPD > CL />25% diff. btwn 2 columns/below RL
		Aldrin	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Heptachlor epoxide	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endosulfan I	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Dieldrin	0.0056	µg/L	J	Low	MS %R < CL / MSD RPD > CL />25% diff. btwn 2 columns/below RL
		4,4' - DDE	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endrin	0.0060	µg/L	J	Low	MS %R < CL / MSD RPD > CL / below RL
		Endosulfan II	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW13-99 (Pest/PCB)	4,4' - DDD	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endosulfan sulfate	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		4,4' - DDT	0.0076	µg/L	J	Low	MS %R < CL / MSD RPD > CL / below RL
		Methoxychlor	0.50	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endrin ketone	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endrin aldehyde	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		alpha - Chlordane	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		gamma - Chlordane	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Toxaphene	5.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1016	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1221	2.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1232	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1242	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1248	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1254	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1260	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL
945707	MW34-09 (VOC)	Vinyl Chloride	10	µg/L	UJ	Low	Missed Holding Time
		Chloroethane	10	µg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethene	10	µg/L	UJ	Low	Missed Holding Time
		1,1,1-Trichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Trichloroethene	10	µg/L	UJ	Low	Missed Holding Time
		1,1,2-Trichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Benzene	10	µg/L	UJ	Low	Missed Holding Time
		Tetrachloroethene	10	µg/L	UJ	Low	Missed Holding Time
		cis-1,2-Dichloroethene	10	µg/L	UJ	Low	Missed Holding Time
		trans-1,2-Dichloroethene	10	µg/L	UJ	Low	Missed Holding Time

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
945689	MW49-09 (VOC)	Chloromethane	10	µg/L	UJ	Low	Missed Holding Time
		Bromomethane	10	µg/L	UJ	Low	Missed Holding Time
		Vinyl Chloride	10	µg/L	UJ	Low	Missed Holding Time
		Chloroethane	220	µg/L	DJ	Low	Missed Holding Time / Diluted
		Methylene Chloride	2	µg/L	J	Low	Missed Holding Time / blank contamination
		Acetone	9	µg/L	JB	Low	Missed HT / IC %RSD>30% / blnk contam. / below RL
		Carbon Disulfide	10	µg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethene	10	µg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Chloroform	10	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		2-Butanone	1	µg/L	JB	Low	Missed Holding Time / blnk contam. / CC > CL / below RL
		1,1,1-Trichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Carbon Tetrachloride	10	µg/L	UJ	Low	Missed Holding Time
		Bromodichloromethane	10	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichloropropane	10	µg/L	UJ	Low	Missed Holding Time
		cis-1,3-Dichloropropene	10	µg/L	UJ	Low	Missed Holding Time
		Trichloroethene	10	µg/L	UJ	Low	Missed Holding Time
		Dibromochloromethane	10	µg/L	UJ	Low	Missed Holding Time
		1,1,2-Trichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Benzene	2600	µg/L	JD	Low	Missed Holding Time / Diluted
		trans-1,3-Dichloropropene	10	µg/L	UJ	Low	Missed Holding Time
		Bromoform	10	µg/L	UJ	Low	Missed Holding Time
		4-Methyl-2-Pentanone	10	µg/L	UJ	Low	Missed Holding Time
		2-Hexanone	10	µg/L	UJ	Low	Missed Holding Time
		Tetrachloroethene	10	µg/L	UJ	Low	Missed Holding Time
		1,1,2,2-Tetrachloroethane	10	µg/L	UJ	Low	Missed Holding Time / CC > CL
		Toluene	1	µg/L	J	Low	Missed Holding Time / below RL

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW49-09	Chlorobenzene	10	µg/L	UJ	Low	Missed Holding Time
	(VOC)	Ethylbenzene	10	µg/L	UJ	Low	Missed Holding Time
		Styrene	10	µg/L	UJ	Low	Missed Holding Time
		Xylene (total)	10	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethene (total)	2	µg/L	J	Low	Missed Holding Time / below RL
	(SVOC)	2,2-oxybis (1-Chloropropane)	9	µg/L	J	NDT	Detected below RL
		Isophorone	3	µg/L	J	NDT	Detected below RL
		2,4-Dinitrophenol	25	µg/L	UJ	High	IC > CL / CC > CL
		2,4-Dinitrotoluene	10	µg/L	UJ	High	CC > CL
		4,6-Dinitro-2-Methylphenol	25	µg/L	UJ	High	CC > CL
	(Pest/PCB)	alpha - BHC	0.048	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		beta - BHC	0.048	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		delta - BHC	0.0019	µg/L	JP	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL / below RL
		gamma - BHC (Lindane)	0.048	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Heptachlor	0.0083	µg/L	JP	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL / below RL
		Aldrin	0.048	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Heptachlor epoxide	0.048	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan I	0.048	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Dieldrin	0.095	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDE	0.095	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endrin	0.095	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan II	0.095	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDD	0.095	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan sulfate	0.095	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDT	0.095	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Methoxychlor	0.48	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW49-09	Endrin ketone	0.0044	µg/L	JP	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL / below RL
	(Pest/PCB)	Endrin aldehyde	0.095	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		alpha - Chlordane	0.048	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		gamma - Chlordane	0.048	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Toxaphene	4.8	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1016	0.95	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1221	1.9	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1232	0.95	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1242	0.95	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1248	0.95	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1254	0.95	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1260	0.95	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
945688	MW52-09	Chloromethane	100	µg/L	UJ	Low	Missed Holding Time
		Bromomethane	100	µg/L	UJ	Low	Missed Holding Time
		Vinyl Chloride	100	µg/L	UJ	Low	Missed Holding Time
		Chloroethane	100	µg/L	UJ	Low	Missed Holding Time
		Methylene Chloride	100	µg/L	UJ	Low	Missed Holding Time
		Acetone	100	µg/L	UJ	Low	Missed Holding Time / IC %RSD >30%
		Carbon Disulfide	100	µg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethene	100	µg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethane	100	µg/L	UJ	Low	Missed Holding Time
		Chloroform	100	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethane	100	µg/L	UJ	Low	Missed Holding Time
		2-Butanone	100	µg/L	UJ	Low	Missed Holding Time
		1,1,1-Trichloroethane	100	µg/L	UJ	Low	Missed Holding Time
		Carbon Tetrachloride	100	µg/L	UJ	Low	Missed Holding Time
		Bromodichloromethane	100	µg/L	UJ	Low	Missed Holding Time

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW52-09	1,2-Dichloropropane	100	µg/L	UJ	Low	Missed Holding Time
	(VOC)	cis-1,3-Dichloropropene	100	µg/L	UJ	Low	Missed Holding Time
		Trichloroethene	100	µg/L	UJ	Low	Missed Holding Time
		Dibromochloromethane	100	µg/L	UJ	Low	Missed Holding Time
		1,1,2-Trichloroethane	100	µg/L	UJ	Low	Missed Holding Time
		Benzene	100	µg/L	UJ	Low	Missed Holding Time
		trans-1,3-Dichloropropene	100	µg/L	UJ	Low	Missed Holding Time
		Bromoform	100	µg/L	UJ	Low	Missed Holding Time
		4-Methyl-2-Pentanone	100	µg/L	UJ	Low	Missed Holding Time
		2-Hexanone	100	µg/L	UJ	Low	Missed Holding Time
		Tetrachloroethene	100	µg/L	UJ	Low	Missed Holding Time
		1,1,2,2-Tetrachloroethane	100	µg/L	UJ	Low	Missed Holding Time
		Toluene	100	µg/L	UJ	Low	Missed Holding Time
		Chlorobenzene	100	µg/L	UJ	Low	Missed Holding Time
		Ethylbenzene	100	µg/L	UJ	Low	Missed Holding Time
		Styrene	100	µg/L	UJ	Low	Missed Holding Time
		Xylene (total)	100	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethene (total)	100	µg/L	UJ	Low	Missed Holding Time
	(SVOC)	bis(2-ethylhexyl)phthalate	6	µg/L	J	NDT	Detected below RL
		2,4-Dinitrophenol	25	µg/L	UJ	High	IC > CL / CC > CL
		3,3-Dichlorobenzidine	10	µg/L	UJ	High	CC > CL
	(Pest/PCB)	alpha - BHC	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		beta - BHC	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		delta - BHC	0.0025	µg/L	J	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL / below RL
		gamma - BHC (Lindane)	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Heptachlor	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW52-09 (Pest/PCB)	Aldrin	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Heptachlor epoxide	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan I	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Dieldrin	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDE	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endrin	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan II	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDD	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan sulfate	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDT	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Methoxychlor	0.50	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endrin ketone	0.0038	µg/L	JP	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL / below RL
		Endrin aldehyde	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		alpha - Chlordane	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		gamma - Chlordane	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Toxaphene	5.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1016	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1221	2.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1232	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1242	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1248	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1254	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1260	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
945704	MW53-09 (VOC)	Chloromethane	10	µg/L	UJ	Low	Missed Holding Time
		Bromomethane	10	µg/L	UJ	Low	Missed Holding Time
		Vinyl Chloride	10	µg/L	UJ	Low	Missed Holding Time
		Chloroethane	10	µg/L	UJ	Low	Missed Holding Time

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW53-09	Methylene Chloride	100	µg/L	J	Low	Missed Holding Time / blank contamination
	(VOC)	Acetone	30	µg/L	JB	Low	Missed Holding Time / IC %RSD>30% / blnk contam.
		Carbon Disulfide	10	µg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethene	10	µg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Chloroform	10	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		2-Butanone	3	µg/L	JB	Low	Missed Holding Time / blnk contam. / below RL
		1,1,1-Trichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Carbon Tetrachloride	10	µg/L	UJ	Low	Missed Holding Time
		Bromodichloromethane	10	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichloropropane	10	µg/L	UJ	Low	Missed Holding Time
		cis-1,3-Dichloropropene	10	µg/L	UJ	Low	Missed Holding Time
		Trichloroethene	10	µg/L	UJ	Low	Missed Holding Time
		Dibromochloromethane	10	µg/L	UJ	Low	Missed Holding Time
		1,1,2-Trichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Benzene	4	µg/L	J	Low	Missed Holding Time / below RL
		trans-1,3-Dichloropropene	10	µg/L	UJ	Low	Missed Holding Time
		Bromoform	10	µg/L	UJ	Low	Missed Holding Time
		4-Methyl-2-Pentanone	3	µg/L	JB	Low	Missed Holding Time / blnk contam. / below RL
		2-Hexanone	10	µg/L	UJ	Low	Missed Holding Time
		Tetrachloroethene	10	µg/L	UJ	Low	Missed Holding Time
		1,1,2,2-Tetrachloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Toluene	1	µg/L	J	Low	Missed Holding Time / below RL
		Chlorobenzene	10	µg/L	UJ	Low	Missed Holding Time
		Ethylbenzene	10	µg/L	UJ	Low	Missed Holding Time
		Styrene	10	µg/L	UJ	Low	Missed Holding Time
		Xylene (total)	10	µg/L	UJ	Low	Missed Holding Time

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW53-09 (VOC)	1,2-Dichloroethene (total)	10	µg/L	UJ	Low	Missed Holding Time
	(SVOC)	2,4-Dinitrophenol	25	µg/L	UJ	High	IC > CL / CC > CL
		2,4-Dinitrotoluene	10	µg/L	UJ	High	CC > CL
		4,6-Dinitro-2-Methylphenol	25	µg/L	UJ	High	CC > CL
	(Pest/PCB)	alpha - BHC	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		beta - BHC	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		delta - BHC	0.0082	µg/L	J	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL / below RL
		gamma - BHC (Lindane)	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Heptachlor	0.0085	µg/L	JP	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL / below RL
		Aldrin	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Heptachlor epoxide	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan I	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Dieldrin	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDE	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endrin	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan II	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDD	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan sulfate	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDT	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Methoxychlor	0.50	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endrin ketone	0.0069	µg/L	JP	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL / below RL
		Endrin aldehyde	0.10	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		alpha - Chlordane	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		gamma - Chlordane	0.050	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Toxaphene	5.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW53-09 (Pest/PCB)	Arochlor - 1016	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1221	2.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1232	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1242	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1248	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1254	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1260	1.0	µg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
945708	TB05-09 (VOC)	Chloromethane	10	µg/L	UJ	Low	Missed Holding Time
		Bromomethane	10	µg/L	UJ	Low	Missed Holding Time
		Vinyl Chloride	10	µg/L	UJ	Low	Missed Holding Time
		Chloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Methylene Chloride	2	µg/L	J	Low	Missed Holding Time / blank contamination / below RL
		Acetone	2	µg/L	JB	Low	Missed Holding Time / blnk contam. / below RL
		Carbon Disulfide	10	µg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethene	10	µg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Chloroform	10	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		2-Butanone	10	µg/L	UJ	Low	Missed Holding Time
		1,1,1-Trichloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Carbon Tetrachloride	10	µg/L	UJ	Low	Missed Holding Time
		Bromodichloromethane	10	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichloropropane	10	µg/L	UJ	Low	Missed Holding Time
		cis-1,3-Dichloropropene	10	µg/L	UJ	Low	Missed Holding Time
		Trichloroethene	10	µg/L	UJ	Low	Missed Holding Time
		Dibromochloromethane	10	µg/L	UJ	Low	Missed Holding Time
		1,1,2-Trichloroethane	10	µg/L	UJ	Low	Missed Holding Time

TABLE 1-1

SUMMARY OF ORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	TB05-09 (VOC)	Benzene	10	µg/L	UJ	Low	Missed Holding Time
		trans-1,3-Dichloropropene	10	µg/L	UJ	Low	Missed Holding Time
		Bromoform	10	µg/L	UJ	Low	Missed Holding Time
		4-Methyl-2-Pentanone	10	µg/L	UJ	Low	Missed Holding Time
		2-Hexanone	10	µg/L	UJ	Low	Missed Holding Time
		Tetrachloroethene	10	µg/L	UJ	Low	Missed Holding Time
		1,1,2,2-Tetrachloroethane	10	µg/L	UJ	Low	Missed Holding Time
		Toluene	10	µg/L	UJ	Low	Missed Holding Time
		Chlorobenzene	10	µg/L	UJ	Low	Missed Holding Time
		Ethylbenzene	10	µg/L	UJ	Low	Missed Holding Time
		Styrene	10	µg/L	UJ	Low	Missed Holding Time
		Xylene (total)	10	µg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethene (total)	10	µg/L	UJ	Low	Missed Holding Time

B - Blank contamination
CC - Continuing calibration
CL - Control limit
D - Sample was diluted
HT - Holding time
IC - Initial calibration
J - Estimated value
µg/L - micrograms/Liter
MS - Matrix spike
MSD - Matrix spike duplicate
NDT - Not Determined
R - Recovery
RL - Reporting limit
RPD - Relative percent deviation
RSD - Relative standard deviation
U - The associated value is at or below MDL.

TABLE 1-2

SUMMARY OF INORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
945706	MW13-09	Aluminum	50.2	µg/L	J	NDT	Detected below RL
		Arsenic	2.2	µg/L	J	NDT	Detected below RL
		Barium	83.2	µg/L	J	NDT	Detected below RL
		Beryllium	0.19	µg/L	JB	High	Duplicate %RPD > CL / below RL
		Cadmium	1.2	µg/L	J	NDT	Detected below RL
		Mercury	0.02	µg/L	UJ	Low	Missed Holding Time
		Nickel	1.4	µg/L	J	NDT	Detected below RL
		Potassium	1720	µg/L	JB	High	Serial Dilution %Difference > CL / below RL
		Vanadium	0.89	µg/L	J	NDT	Detected below RL
		Zinc	2.0	µg/L	J	NDT	Detected below RL
945669	MW13-99	Aluminum	51.1	µg/L	J	NDT	Detected below RL
		Antimony	2.1	µg/L	JB	High	Duplicate %RPD > CL / below RL
		Barium	84.1	µg/L	J	NDT	Detected below RL
		Beryllium	0.23	µg/L	JB	High	Duplicate %RPD > CL / below RL
		Cadmium	1.3	µg/L	J	NDT	Detected below RL
		Mercury	0.02	µg/L	JB	Low	Missed Holding Time / below RL
		Nickel	1.3	µg/L	J	NDT	Detected below RL
		Potassium	1650	µg/L	JB	High	Serial Dilution %Difference > CL / below RL
		Vanadium	1.1	µg/L	J	NDT	Detected below RL
945707	MW34-09	Aluminum	119	µg/L	J	NDT	Detected below RL
		Barium	187	µg/L	J	NDT	Detected below RL
		Cadmium	0.58	µg/L	J	NDT	Detected below RL
		Cobalt	0.70	µg/L	JB	High	Duplicate %RPD > CL / below RL
		Copper	7.7	µg/L	JB	High	Duplicate %RPD > CL / below RL
		Lead	1.1	µg/L	J	NDT	Detected below RL

TABLE 1-2

SUMMARY OF INORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW34-09	Mercury	0.02	µg/L	UJ	Low	Missed Holding Time
		Nickel	12.3	µg/L	J	NDT	Detected below RL
		Potassium	3820	µg/L	JB	High	Serial Dilution %Difference > CL / below RL
		Zinc	5.6	µg/L	J	NDT	Detected below RL
945689	MW49-09	Antimony	42.4	µg/L	JB	High	Duplicate %RPD > CL / below RL
		Barium	117	µg/L	J	NDT	Detected below RL
		Beryllium	0.53	µg/L	JB	High	Duplicate %RPD > CL / below RL
		Chromium	1.9	µg/L	J	NDT	Detected below RL
		Cobalt	1.3	µg/L	JB	High	Duplicate %RPD > CL / below RL
		Copper	2.0	µg/L	JB	High	Duplicate %RPD > CL / below RL
		Mercury	0.02	µg/L	UJ	Low	Missed Holding Time
		Nickel	5.5	µg/L	J	NDT	Detected below RL
		Potassium	4030	µg/L	JB	High	Serial Dilution %Difference > CL / below RL
		Selenium	3.5	µg/L	J	NDT	Detected below RL
		Thallium	8.0	µg/L	J	NDT	Detected below RL
		Vanadium	3.6	µg/L	J	NDT	Detected below RL
		Zinc	10.3	µg/L	J	NDT	Detected below RL
945688	MW52-09	Arsenic	3.3	µg/L	J	NDT	Detected below RL
		Beryllium	0.16	µg/L	JB	High	Duplicate %RPD > CL / below RL
		Cadmium	0.86	µg/L	J	NDT	Detected below RL
		Chromium	3	µg/L	J	NDT	Detected below RL
		Cobalt	1.1	µg/L	JB	High	Duplicate %RPD > CL / below RL
		Copper	1.9	µg/L	JB	High	Duplicate %RPD > CL / below RL
		Cyanide	9	µg/L	J	NDT	Detected below RL
		Mercury	0.02	µg/L	UJ	Low	Missed Holding Time

TABLE 1-2

SUMMARY OF INORGANIC DATA QUALIFICATIONS
SDG 007
AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW52-09	Nickel	5	µg/L	J	NDT	Detected below RL
		Potassium	2360	µg/L	JB	High	Serial Dilution %Difference > CL / below RL
		Silver	0.36	µg/L	J	NDT	Detected below RL
		Vanadium	1.3	µg/L	J	NDT	Detected below RL
		Zinc	1.2	µg/L	J	NDT	Detected below RL
945704	MW53-09	Antimony	3.3	µg/L	JB	High	Duplicate %RPD > CL / below RL
		Arsenic	3.4	µg/L	J	NDT	Detected below RL
		Beryllium	0.29	µg/L	JB	High	Duplicate %RPD > CL / below RL
		Cadmium	1.4	µg/L	J	NDT	Detected below RL
		Chromium	2.3	µg/L	J	NDT	Detected below RL
		Cobalt	3.2	µg/L	JB	High	Duplicate %RPD > CL / below RL
		Mercury	0.08	µg/L	JB	Low	Missed Holding Time / below RL
		Nickel	8.6	µg/L	J	NDT	Detected below RL
		Potassium	20900	µg/L	J	High	Serial Dilution %Difference > CL
		Vanadium	1.9	µg/L	J	NDT	Detected below RL
		Zinc	1.5	µg/L	J	NDT	Detected below RL

B - The associated value is detected above the IDL, but below the CRDL.
CL - Control limit
CRDL - Contract required detection limit
IDL - Instrument detection limit
J - Estimated value
µg/L - micrograms/Liter
RL - Reporting limit
RPD - Relative percent deviation
U - The associated value is at or below IDL.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M4D-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945263

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045263A57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
71-55-6	1,1,1-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
127-18-4	Tetrachloroethene	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

M4D-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945263

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045263a57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

M4D-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix (soil/water): WATER Lab Sample ID: 945263

Level (low/med): LOW Date Received: 06/12/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW07-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945495

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045495A57

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: not dec. _____ Date Analyzed: 06/27/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
71-55-6	1,1,1-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
127-18-4	Tetrachloroethene	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW07-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945495

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045495a57

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: not dec. _____ Date Analyzed: 06/27/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
MW07-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix (soil/water): WATER Lab Sample ID: 945495

Level (low/med): LOW Date Received: 06/15/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW8-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944687

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044687A57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWMW8-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944687

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn044687a57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW8-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944687

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044687A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW8-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944687

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044687A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWMW8-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944687

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044687A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 22

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN SILOXANE	6.89	210	J
2.		UNKNOWN	7.44	23	J
3.		UNKNOWN	7.77	11	J
4.		UNKNOWN (BC)	7.98	7	JB
5.		UNKNOWN (BC)	8.38	8	JB
6.		UNKNOWN SILOXANE	8.55	22	J
7.		UNKNOWN	8.77	10	J
8.		UNKNOWN	8.89	6	J
9.		UNKNOWN (BC)	9.51	17	JB
10.		UNKNOWN	9.56	14	J
11.		UNKNOWN	9.90	89	J
12.		UNKNOWN (BC)	10.05	13	JB
13.		SUBSTITUTED BENZENE	10.16	25	J
14.		UNKNOWN	10.49	270	J
15.		UNKNOWN	10.68	39	J
16.		UNKNOWN	11.84	36	J
17.		UNKNOWN	12.62	16	J
18.		UNKNOWN	13.04	12	J
19.		UNKNOWN	14.02	35	J
20.		UNKNOWN	15.02	26	J
21.		UNKNOWN	16.85	370	J
22.		UNKNOWN	19.36	140	J
23.					
24.					
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1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW8-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944687

Sample wt/vol: 1050 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/11/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/15/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/17/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.048	U
319-85-7	beta-BHC	0.048	U
319-86-8	delta-BHC	0.048	U
58-89-9	gamma-BHC (Lindane)	0.048	U
76-44-8	Heptachlor	0.048	U
309-00-2	Aldrin	0.048	U
1024-57-3	Heptachlor epoxide	0.048	U
959-98-8	Endosulfan I	0.048	U
60-57-1	Dieldrin	0.095	U
72-55-9	4,4'-DDE	0.095	U
72-20-8	Endrin	0.095	U
33213-65-9	Endosulfan II	0.095	U
72-54-8	4,4'-DDD	0.095	U
1031-07-8	Endosulfan sulfate	0.095	U
50-29-3	4,4'-DDT	0.095	U
72-43-5	Methoxychlor	0.48	U
53494-70-5	Endrin ketone	0.095	U
7421-93-4	Endrin aldehyde	0.095	U
5103-71-9	alpha-Chlordane	0.048	U
5103-74-2	gamma-Chlordane	0.048	U
8001-35-2	Toxaphene	4.8	U
12674-11-2	Aroclor-1016	0.95	U
11104-28-2	Aroclor-1221	1.9	U
11141-16-5	Aroclor-1232	0.95	U
53469-21-9	Aroclor-1242	0.95	U
12672-29-6	Aroclor-1248	0.95	U
11097-69-1	Aroclor-1254	0.95	U
11096-82-5	Aroclor-1260	0.95	U

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACSGWMW8-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix (soil/water): WATER Lab Sample ID: 944687

Level (low/med): LOW Date Received: 06/11/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	88.5	B		P
7440-36-0	Antimony	1.0	U		P
7440-38-2	Arsenic	1.4	U		P
7440-39-3	Barium	121	B		P
7440-41-7	Beryllium	0.26	B		P
7440-43-9	Cadmium	0.35	B		P
7440-70-2	Calcium	52200			P
7440-47-3	Chromium	3.5	B		P
7440-48-4	Cobalt	1.1	B		P
7440-50-8	Copper	1.7	B		P
7439-89-6	Iron	1720			P
7439-92-1	Lead	1.5	B		P
7439-95-4	Magnesium	17400			P
7439-96-5	Manganese	100			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	0.50	U		P
7440-09-7	Potassium	862	B	E	P
7782-49-2	Selenium	1.6	U		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	14200			P
7440-28-0	Thallium	2.1	U		P
7440-62-2	Vanadium	0.40	U		P
7440-66-6	Zinc	0.97	B		P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW09R-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945685

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045685A57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/29/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	560	E
75-09-2	Methylene Chloride	9	J
67-64-1	Acetone	8	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	170	
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW09R-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945685

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045685a57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/29/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	108-20-3	DIISOPROPYL ETHER	10.72	10	NJ
2.	111-43-3	DI-N-PROPYL ETHER	13.47	18	NJ
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW09R-09DL

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945685

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CR045685A57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/29/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 5.6

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	56	U
74-83-9	Bromomethane	56	U
75-01-4	Vinyl Chloride	56	U
75-00-3	Chloroethane	490	D
75-09-2	Methylene Chloride	12	DJ
67-64-1	Acetone	15	DJ
75-15-0	Carbon Disulfide	56	U
75-35-4	1,1-Dichloroethene	56	U
75-34-3	1,1-Dichloroethane	56	U
67-66-3	Chloroform	56	U
107-06-2	1,2-Dichloroethane	56	U
78-93-3	2-Butanone	56	U
71-55-6	1,1,1-Trichloroethane	56	U
56-23-5	Carbon Tetrachloride	56	U
75-27-4	Bromodichloromethane	56	U
78-87-5	1,2-Dichloropropane	56	U
10061-01-5	cis-1,3-Dichloropropene	56	U
79-01-6	Trichloroethene	56	U
124-48-1	Dibromochloromethane	56	U
79-00-5	1,1,2-Trichloroethane	56	U
71-43-2	Benzene	160	D
10061-02-6	trans-1,3-Dichloropropene	56	U
75-25-2	Bromoform	56	U
108-10-1	4-Methyl-2-Pentanone	56	U
591-78-6	2-Hexanone	56	U
127-18-4	Tetrachloroethene	56	U
79-34-5	1,1,2,2-Tetrachloroethane	56	U
108-88-3	Toluene	56	U
108-90-7	Chlorobenzene	56	U
100-41-4	Ethylbenzene	56	U
100-42-5	Styrene	56	U
1330-20-7	Xylene (Total)	56	U
540-59-0	1,2-Dichloroethene (total)	56	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW09R-09DL

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945685

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cr045685a57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/29/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 5.6

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW09R-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945685

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045685A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	13	
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW09R-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945685

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045685A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW09R-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945685

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045685A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	5.57	5	J
2.		UNKNOWN	5.69	6	J
3.		UNKNOWN	6.01	10	J
4.		UNKNOWN	6.37	4	J
5.		UNKNOWN	7.04	5	J
6.		UNKNOWN	7.81	6	J
7.		UNKNOWN	8.00	3	J
8.		UNKNOWN	8.69	2	J
9.		UNKNOWN	9.21	2	J
10.		UNKNOWN	9.42	18	J
11.		UNKNOWN	9.83	6	J
12.		UNKNOWN	10.00	4	J
13.		UNKNOWN	10.27	2	J
14.		UNKNOWN	11.16	4	J
15.		UNKNOWN	11.32	4	J
16.		UNKNOWN	11.93	4	J
17.		UNKNOWN	12.26	6	J
18.		UNKNOWN	12.42	3	J
19.		UNKNOWN	12.98	17	J
20.	10544-50-0	SULFUR, MOL. (S8)	14.17	14	NJ
21.		UNKNOWN	15.21	3	J
22.		UNKNOWN	15.51	4	J
23.		UNKNOWN	15.66	4	J
24.		UNKNOWN	15.82	3	J
25.		UNKNOWN	16.30	48	J
26.		UNKNOWN	16.42	8	J
27.		UNKNOWN	16.58	3	J
28.		UNKNOWN	16.66	2	J
29.		UNKNOWN	18.84	6	J
30.		UNKNOWN	21.59	6	J

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW09R-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945685

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/16/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/17/99 1 days

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/05/99 18 days

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.0053	JP
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.010	JP
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW09R-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix (soil/water): WATER Lab Sample ID: 945685

Level (low/med): LOW Date Received: 06/16/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	296			P
7440-36-0	Antimony	1.8	U		P
7440-38-2	Arsenic	2.0	B		P
7440-39-3	Barium	230			P
7440-41-7	Beryllium	0.86	B		P
7440-43-9	Cadmium	0.92	B		P
7440-70-2	Calcium	119000			P
7440-47-3	Chromium	25.9			P
7440-48-4	Cobalt	3.3	B		P
7440-50-8	Copper	5.7	B		P
7439-89-6	Iron	4980			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	16400			P
7439-96-5	Manganese	199			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	18.2	B		P
7440-09-7	Potassium	7790		E	P
7782-49-2	Selenium	3.1	U	N	P
7440-22-4	Silver	0.30	U		P
7440-23-5	Sodium	37400			P
7440-28-0	Thallium	4.1	U		P
7440-62-2	Vanadium	2.5	B		P
7440-66-6	Zinc	20.6		*	P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW09R-09DLMS

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944695

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044695B57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/29/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 5.6

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	56	U
74-83-9	Bromomethane	56	U
75-01-4	Vinyl Chloride	56	U
75-00-3	Chloroethane	490	
75-09-2	Methylene Chloride	9	J
67-64-1	Acetone	12	BJ
75-15-0	Carbon Disulfide	56	U
75-35-4	1,1-Dichloroethene	250	
75-34-3	1,1-Dichloroethane	56	U
67-66-3	Chloroform	56	U
107-06-2	1,2-Dichloroethane	56	U
78-93-3	2-Butanone	56	U
71-55-6	1,1,1-Trichloroethane	56	U
56-23-5	Carbon Tetrachloride	56	U
75-27-4	Bromodichloromethane	56	U
78-87-5	1,2-Dichloropropane	56	U
10061-01-5	cis-1,3-Dichloropropene	56	U
79-01-6	Trichloroethene	270	
124-48-1	Dibromochloromethane	56	U
79-00-5	1,1,2-Trichloroethane	56	U
71-43-2	Benzene	410	
10061-02-6	trans-1,3-Dichloropropene	56	U
75-25-2	Bromoform	56	U
108-10-1	4-Methyl-2-Pentanone	56	U
591-78-6	2-Hexanone	56	U
127-18-4	Tetrachloroethene	56	U
79-34-5	1,1,2,2-Tetrachloroethane	56	U
108-88-3	Toluene	270	
108-90-7	Chlorobenzene	270	
100-41-4	Ethylbenzene	56	U
100-42-5	Styrene	56	U
1330-20-7	Xylene (Total)	56	U
540-59-0	1,2-Dichloroethene (total)	56	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW09R-09DLMSD

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944696

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044696B57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/30/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 5.6

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	56	U
74-83-9	Bromomethane	56	U
75-01-4	Vinyl Chloride	56	U
75-00-3	Chloroethane	56	U
75-09-2	Methylene Chloride	9	J
67-64-1	Acetone	9	BJ
75-15-0	Carbon Disulfide	56	U
75-35-4	1,1-Dichloroethene	250	
75-34-3	1,1-Dichloroethane	56	U
67-66-3	Chloroform	56	U
107-06-2	1,2-Dichloroethane	56	U
78-93-3	2-Butanone	56	U
71-55-6	1,1,1-Trichloroethane	56	U
56-23-5	Carbon Tetrachloride	56	U
75-27-4	Bromodichloromethane	56	U
78-87-5	1,2-Dichloropropane	56	U
10061-01-5	cis-1,3-Dichloropropene	56	U
79-01-6	Trichloroethene	270	
124-48-1	Dibromochloromethane	56	U
79-00-5	1,1,2-Trichloroethane	56	U
71-43-2	Benzene	410	
10061-02-6	trans-1,3-Dichloropropene	56	U
75-25-2	Bromoform	56	U
108-10-1	4-Methyl-2-Pentanone	56	U
591-78-6	2-Hexanone	56	U
127-18-4	Tetrachloroethene	56	U
79-34-5	1,1,2,2-Tetrachloroethane	56	U
108-88-3	Toluene	270	
108-90-7	Chlorobenzene	270	
100-41-4	Ethylbenzene	56	U
100-42-5	Styrene	56	U
1330-20-7	Xylene (Total)	56	U
540-59-0	1,2-Dichloroethene (total)	56	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW09R-09MS

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944699

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044699A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	74	
111-44-4	bis(2-Chloroethyl)ether	25	
95-57-8	2-Chlorophenol	74	
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	34	
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	52	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	44	
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	95	E
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	50	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW09R-09MS

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944699

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044699A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	100	E
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	45	
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	150	E
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	56	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW09R-09MSD

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944700

Sample wt/vol: 980 (g/mL) ML Lab File ID: GH044700A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	86	E
111-44-4	bis(2-Chloroethyl)ether	24	
95-57-8	2-Chlorophenol	81	
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	36	
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	44	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	40	
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	86	E
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	26	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	26	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	26	U
83-32-9	Acenaphthene	50	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW09R-09MSD

Lab Name: COMPUCHEM Contract: OLM03-REVS

Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944700

Sample wt/vol: 980 (g/mL) ML Lab File ID: GH044700A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	26	U
100-02-7	4-Nitrophenol	96	E
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	41	
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	26	U
534-52-1	4,6-Dinitro-2-methylphenol	26	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	150	E
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	53	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	4	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW09R-09MS

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944702

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/16/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 06/17/99 1 day

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/05/99 18 days

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.033	JP
319-86-8	delta-BHC	0.0033	JP
58-89-9	gamma-BHC (Lindane)	0.41	
76-44-8	Heptachlor	0.45	
309-00-2	Aldrin	0.44	
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.96	
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	1.2	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.0049	JP
1031-07-8	Endosulfan sulfate	0.0072	J
50-29-3	4,4'-DDT	1.0	
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.018	JP
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.0068	JP
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW09R-09MSD

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944701

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/16/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/17/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/05/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.020	JP
319-86-8	delta-BHC	0.0036	JP
58-89-9	gamma-BHC (Lindane)	0.32	
76-44-8	Heptachlor	0.36	
309-00-2	Aldrin	0.34	
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.76	
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.90	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.0044	JP
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.80	
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.012	JP
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.0066	JP
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW10C-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945705

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045705A57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/29/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 100.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	1000	U
74-83-9	Bromomethane	1000	U
75-01-4	Vinyl Chloride	1000	U
75-00-3	Chloroethane	2600	
75-09-2	Methylene Chloride	130	J
67-64-1	Acetone	990	J
75-15-0	Carbon Disulfide	1000	U
75-35-4	1,1-Dichloroethene	1000	U
75-34-3	1,1-Dichloroethane	1000	U
67-66-3	Chloroform	1000	U
107-06-2	1,2-Dichloroethane	1000	U
78-93-3	2-Butanone	1000	U
71-55-6	1,1,1-Trichloroethane	1000	U
56-23-5	Carbon Tetrachloride	1000	U
75-27-4	Bromodichloromethane	1000	U
78-87-5	1,2-Dichloropropane	1000	U
10061-01-5	cis-1,3-Dichloropropene	1000	U
79-01-6	Trichloroethene	1000	U
124-48-1	Dibromochloromethane	1000	U
79-00-5	1,1,2-Trichloroethane	1000	U
71-43-2	Benzene	2000	
10061-02-6	trans-1,3-Dichloropropene	1000	U
75-25-2	Bromoform	1000	U
108-10-1	4-Methyl-2-Pentanone	1000	U
591-78-6	2-Hexanone	1000	U
127-18-4	Tetrachloroethene	1000	U
79-34-5	1,1,2,2-Tetrachloroethane	1000	U
108-88-3	Toluene	1000	U
108-90-7	Chlorobenzene	1000	U
100-41-4	Ethylbenzene	1000	U
100-42-5	Styrene	1000	U
1330-20-7	Xylene (Total)	1000	U
540-59-0	1,2-Dichloroethene (total)	1000	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW10C-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945705

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045705a57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/29/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 100.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	60-29-7	ETHER	7.56	43269	NJ
2.	109-99-9	FURAN, TETRAHYDRO-	11.99	1119	NJ
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW10C-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945705

Sample wt/vol: 970 (g/mL) ML Lab File ID: GH045705A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	26	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	26	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	26	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW10C-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945705

Sample wt/vol: 970 (g/mL) ML Lab File ID: GH045705A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	26	U
100-02-7	4-Nitrophenol	26	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	26	U
534-52-1	4,6-Dinitro-2-methylphenol	26	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	26	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW10C-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945705

Sample wt/vol: 970 (g/mL) ML Lab File ID: GH045705A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	4.73	34	J
2.		UNKNOWN	4.85	10	J
3.		UNKNOWN	5.62	33	J
4.		UNKNOWN	5.87	18	J
5.		UNKNOWN	6.20	130	J
6.		UNKNOWN	6.27	9	J
7.		UNKNOWN	6.38	6	J
8.		UNKNOWN	6.48	8	J
9.		UNKNOWN	7.11	21	J
10.		UNKNOWN	7.81	31	J
11.		UNKNOWN	8.06	6	J
12.	85-44-9	PHTHALIC ANHYDRIDE	8.11	8	NJ
13.		UNKNOWN	8.43	23	J
14.		UNKNOWN	8.78	9	J
15.		UNKNOWN	9.04	7	J
16.		UNKNOWN	9.74	11	J
17.		UNKNOWN	9.88	6	J
18.		UNKNOWN	9.95	6	J
19.		UNKNOWN	10.62	5	J
20.		UNKNOWN	10.72	4	J
21.		UNKNOWN	11.93	10	J
22.		UNKNOWN	12.27	12	J
23.	309-43-3	SECOBARBITAL SODIUM	12.46	4	NJ
24.		UNKNOWN	12.83	4	J
25.		UNKNOWN	13.46	13	J
26.		UNKNOWN	14.09	4	J
27.		UNKNOWN	14.25	5	J
28.		UNKNOWN	14.74	12	J
29.		UNKNOWN	15.61	3	J
30.		UNKNOWN	15.82	7	J

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW10C-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945705

Sample wt/vol: 1020 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/16/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/17/99 1 days

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/05/99 18 days

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.049	U
319-85-7	beta-BHC	0.017	J
319-86-8	delta-BHC	0.0023	JP
58-89-9	gamma-BHC (Lindane)	0.0012	JP
76-44-8	Heptachlor	0.049	U
309-00-2	Aldrin	0.049	U
1024-57-3	Heptachlor epoxide	0.049	U
959-98-8	Endosulfan I	0.049	U
60-57-1	Dieldrin	0.098	U
72-55-9	4,4'-DDE	0.098	U
72-20-8	Endrin	0.098	U
33213-65-9	Endosulfan II	0.098	U
72-54-8	4,4'-DDD	0.098	U
1031-07-8	Endosulfan sulfate	0.098	U
50-29-3	4,4'-DDT	0.098	U
72-43-5	Methoxychlor	0.49	U
53494-70-5	Endrin ketone	0.098	U
7421-93-4	Endrin aldehyde	0.098	U
5103-71-9	alpha-Chlordane	0.049	U
5103-74-2	gamma-Chlordane	0.049	U
8001-35-2	Toxaphene	4.9	U
12674-11-2	Aroclor-1016	0.98	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	0.98	U
53469-21-9	Aroclor-1242	0.98	U
12672-29-6	Aroclor-1248	0.98	U
11097-69-1	Aroclor-1254	0.98	U
11096-82-5	Aroclor-1260	0.98	U

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW10C-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix (soil/water): WATER Lab Sample ID: 945705

Level (low/med): LOW Date Received: 06/16/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	384			P
7440-36-0	Antimony	2.1	B		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	333			P
7440-41-7	Beryllium	0.33	B		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	103000			P
7440-47-3	Chromium	15.4			P
7440-48-4	Cobalt	2.7	B		P
7440-50-8	Copper	3.6	B		P
7439-89-6	Iron	8520			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	52200			P
7439-96-5	Manganese	74.0			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	13.4	B		P
7440-09-7	Potassium	3630	B	E	P
7782-49-2	Selenium	3.1	U	N	P
7440-22-4	Silver	0.30	U		P
7440-23-5	Sodium	186000			P
7440-28-0	Thallium	4.1	U		P
7440-62-2	Vanadium	2.0	B		P
7440-66-6	Zinc	5.1	B	*	P
	Cyanide	7.4	B		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW23-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945493

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045493A57

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: not dec. _____ Date Analyzed: 06/27/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	J
67-64-1	Acetone	7	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW23-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945493

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045493a57

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: not dec. _____ Date Analyzed: 06/27/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW23-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945493

Sample wt/vol: 990 (g/mL) ML Lab File ID: GH045493A66

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW23-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945493

Sample wt/vol: 990 (g/mL) ML Lab File ID: GH045493A66

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW23-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945493

Sample wt/vol: 990 (g/mL) ML Lab File ID: GH045493A66

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.81	2	J
2.		UNKNOWN	8.16	5	J
3.		UNKNOWN	9.43	9	J
4.		UNKNOWN AMINE	9.83	2	J
5.		UNKNOWN	13.30	7	J
6.		UNKNOWN	15.42	4	J
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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW23-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945493

Sample wt/vol: 1050 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/15/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/17/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.048	U
319-85-7	beta-BHC	0.048	U
319-86-8	delta-BHC	0.048	U
58-89-9	gamma-BHC (Lindane)	0.048	U
76-44-8	Heptachlor	0.0022	JP
309-00-2	Aldrin	0.048	U
1024-57-3	Heptachlor epoxide	0.048	U
959-98-8	Endosulfan I	0.048	U
60-57-1	Dieldrin	0.095	U
72-55-9	4,4'-DDE	0.095	U
72-20-8	Endrin	0.095	U
33213-65-9	Endosulfan II	0.095	U
72-54-8	4,4'-DDD	0.095	U
1031-07-8	Endosulfan sulfate	0.095	U
50-29-3	4,4'-DDT	0.095	U
72-43-5	Methoxychlor	0.48	U
53494-70-5	Endrin ketone	0.095	U
7421-93-4	Endrin aldehyde	0.095	U
5103-71-9	alpha-Chlordane	0.048	U
5103-74-2	gamma-Chlordane	0.048	U
8001-35-2	Toxaphene	4.8	U
12674-11-2	Aroclor-1016	0.95	U
11104-28-2	Aroclor-1221	1.9	U
11141-16-5	Aroclor-1232	0.95	U
53469-21-9	Aroclor-1242	0.95	U
12672-29-6	Aroclor-1248	0.95	U
11097-69-1	Aroclor-1254	0.95	U
11096-82-5	Aroclor-1260	0.95	U

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
MW23-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: _____ SDG No.: 00005

Matrix (soil/water): WATER Lab Sample ID: 945493

Level (low/med): LOW Date Received: 06/15/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1120			P
7440-36-0	Antimony	2.3	B		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	116	B		P
7440-41-7	Beryllium	0.37	B		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	74200			P
7440-47-3	Chromium	11.0			P
7440-48-4	Cobalt	1.1	B		P
7440-50-8	Copper	4.7	B		P
7439-89-6	Iron	8830			P
7439-92-1	Lead	2.9	B		P
7439-95-4	Magnesium	22600			P
7439-96-5	Manganese	295			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	10.6	B		P
7440-09-7	Potassium	2220	B		P
7782-49-2	Selenium	3.1	U		P
7440-22-4	Silver	0.30	U		P
7440-23-5	Sodium	64200			P
7440-28-0	Thallium	4.1	U		P
7440-62-2	Vanadium	3.3	B		P
7440-66-6	Zinc	8.6	B		P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW24-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945665

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045665A57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/28/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	J
67-64-1	Acetone	4	JB
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW24-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945665

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045665a57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/28/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW24-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945665

Sample wt/vol: 1050 (g/mL) ML Lab File ID: GH045665A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW24-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945665

Sample wt/vol: 1050 (g/mL) ML Lab File ID: GH045665A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW24-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945665

Sample wt/vol: 1050 (g/mL) ML Lab File ID: GH045665A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW24-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945665

Sample wt/vol: 1050 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/16/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/17/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.048	U
319-85-7	beta-BHC	0.0096	JP
319-86-8	delta-BHC	0.0030	JP
58-89-9	gamma-BHC (Lindane)	0.048	U
76-44-8	Heptachlor	0.048	U
309-00-2	Aldrin	0.048	U
1024-57-3	Heptachlor epoxide	0.048	U
959-98-8	Endosulfan I	0.048	U
60-57-1	Dieldrin	0.095	U
72-55-9	4,4'-DDE	0.095	U
72-20-8	Endrin	0.095	U
33213-65-9	Endosulfan II	0.095	U
72-54-8	4,4'-DDD	0.095	U
1031-07-8	Endosulfan sulfate	0.095	U
50-29-3	4,4'-DDT	0.095	U
72-43-5	Methoxychlor	0.48	U
53494-70-5	Endrin ketone	0.095	U
7421-93-4	Endrin aldehyde	0.095	U
5103-71-9	alpha-Chlordane	0.048	U
5103-74-2	gamma-Chlordane	0.048	U
8001-35-2	Toxaphene	4.8	U
12674-11-2	Aroclor-1016	0.95	U
11104-28-2	Aroclor-1221	1.9	U
11141-16-5	Aroclor-1232	0.95	U
53469-21-9	Aroclor-1242	0.95	U
12672-29-6	Aroclor-1248	0.95	U
11097-69-1	Aroclor-1254	0.95	U
11096-82-5	Aroclor-1260	0.95	U

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW24-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix (soil/water): WATER Lab Sample ID: 945665

Level (low/med): LOW Date Received: 06/16/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	157	B		P
7440-36-0	Antimony	3.7	B		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	199	B		P
7440-41-7	Beryllium	0.18	B		P
7440-43-9	Cadmium	0.84	B		P
7440-70-2	Calcium	110000			P
7440-47-3	Chromium	5.1	B		P
7440-48-4	Cobalt	0.60	U		P
7440-50-8	Copper	2.9	B		P
7439-89-6	Iron	4980			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	28700			P
7439-96-5	Manganese	231			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	4.0	B		P
7440-09-7	Potassium	1130	B		P
7782-49-2	Selenium	3.1	U		P
7440-22-4	Silver	0.30	U		P
7440-23-5	Sodium	106000			P
7440-28-0	Thallium	4.1	U		P
7440-62-2	Vanadium	0.93	B		P
7440-66-6	Zinc	1.5	B		P
	Cyanide	8.1	B		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW28-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944516

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044516B57

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	8	J
67-64-1	Acetone	4	JB
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	2	J
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	2	J
540-59-0	1,2-Dichloroethene (total)	10	U

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW28-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944516

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn044516b57

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 19 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	110-54-3	HEXANE	10.23	8	NJ
2.		UNKNOWN	12.48	6	J
3.		UNKNOWN ALCOHOL	13.33	5	J
4.	108-87-2	CYCLOHEXANE, METHYL-	14.48	7	NJ
5.	111-65-9	OCTANE	16.69	5	NJ
6.	111-84-2	NONANE	18.98	9	NJ
7.	124-18-5	DECANE	20.39	13	NJ
8.		TRIMETHYLBENZENE	20.73	14	J
9.		UNKNOWN	21.16	7	J
10.		SUBSTITUTED BENZENE	21.36	6	J
11.	1120-21-4	UNDECANE	21.57	18	NJ
12.		ETHYLDIMETHYLBENZENE	21.76	7	J
13.		ETHYLDIMETHYLBENZENE	21.85	8	J
14.		UNKNOWN	21.99	5	J
15.		TETRAMETHYLBENZENE	22.36	19	J
16.		UNKNOWN	22.47	9	J
17.		UNKNOWN	22.76	7	J
18.	112-40-3	DODECANE	22.84	33	NJ
19.		UNKNOWN	23.04	13	J
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
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30.					

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW28-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944516

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GJ044516A64

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/11/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/02/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW28-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944516

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GJ044516A64

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/11/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/02/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW28-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944516

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GJ044516A64

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/11/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/02/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN (BC)	20.79	8	JB
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1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW28-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944516

Sample wt/vol: 1040 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/10/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/12/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.048	U
319-85-7	beta-BHC	0.048	U
319-86-8	delta-BHC	0.048	U
58-89-9	gamma-BHC (Lindane)	0.048	U
76-44-8	Heptachlor	0.048	U
309-00-2	Aldrin	0.048	U
1024-57-3	Heptachlor epoxide	0.048	U
959-98-8	Endosulfan I	0.048	U
60-57-1	Dieldrin	0.096	U
72-55-9	4,4'-DDE	0.096	U
72-20-8	Endrin	0.096	U
33213-65-9	Endosulfan II	0.096	U
72-54-8	4,4'-DDD	0.096	U
1031-07-8	Endosulfan sulfate	0.096	U
50-29-3	4,4'-DDT	0.096	U
72-43-5	Methoxychlor	0.48	U
53494-70-5	Endrin ketone	0.096	U
7421-93-4	Endrin aldehyde	0.096	U
5103-71-9	alpha-Chlordane	0.0025	JP
5103-74-2	gamma-Chlordane	0.048	U
8001-35-2	Toxaphene	4.8	U
12674-11-2	Aroclor-1016	0.96	U
11104-28-2	Aroclor-1221	1.9	U
11141-16-5	Aroclor-1232	0.96	U
53469-21-9	Aroclor-1242	0.96	U
12672-29-6	Aroclor-1248	0.96	U
11097-69-1	Aroclor-1254	0.96	U
11096-82-5	Aroclor-1260	0.96	U

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW28-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix (soil/water): WATER Lab Sample ID: 944516

Level (low/med): LOW Date Received: 06/10/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	265			P
7440-36-0	Antimony	1.0	U		P
7440-38-2	Arsenic	1.4	U		P
7440-39-3	Barium	125	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.60	B		P
7440-70-2	Calcium	83500			P
7440-47-3	Chromium	32.9			P
7440-48-4	Cobalt	3.1	B		P
7440-50-8	Copper	12.9	B		P
7439-89-6	Iron	2900			P
7439-92-1	Lead	4.2			P
7439-95-4	Magnesium	40700			P
7439-96-5	Manganese	74.5			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	26.0	B		P
7440-09-7	Potassium	1730	B	E	P
7782-49-2	Selenium	1.6	U		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	19100			P
7440-28-0	Thallium	2.1	U		P
7440-62-2	Vanadium	0.40	U		P
7440-66-6	Zinc	4.6	B		P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW29-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945668

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045668A57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/29/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	2	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW29-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945668

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045668a57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/29/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
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10.					
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW29-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945668

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045668A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW29-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945668

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045668A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW29-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945668

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045668A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 12

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	4.96	4	J
2.		UNKNOWN	6.10	61	J
3.		UNKNOWN	6.18	4	J
4.		UNKNOWN	7.69	3	J
5.		UNKNOWN	7.80	5	J
6.		UNKNOWN	7.85	8	J
7.		UNKNOWN	7.97	2	J
8.	85-44-9	PHTHALIC ANHYDRIDE	8.11	3	NJ
9.		UNKNOWN	8.74	2	J
10.		UNKNOWN	9.16	2	J
11.		UNKNOWN	9.43	3	J
12.		UNKNOWN	9.83	3	J
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1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: MW29-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945668

Sample wt/vol: 1020 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/16/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/17/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.049	U
319-85-7	beta-BHC	0.049	U
319-86-8	delta-BHC	0.0045	JP
58-89-9	gamma-BHC (Lindane)	0.049	U
76-44-8	Heptachlor	0.049	U
309-00-2	Aldrin	0.049	U
1024-57-3	Heptachlor epoxide	0.049	U
959-98-8	Endosulfan I	0.049	U
60-57-1	Dieldrin	0.098	U
72-55-9	4,4'-DDE	0.098	U
72-20-8	Endrin	0.098	U
33213-65-9	Endosulfan II	0.098	U
72-54-8	4,4'-DDD	0.098	U
1031-07-8	Endosulfan sulfate	0.098	U
50-29-3	4,4'-DDT	0.098	U
72-43-5	Methoxychlor	0.49	U
53494-70-5	Endrin ketone	0.098	U
7421-93-4	Endrin aldehyde	0.098	U
5103-71-9	alpha-Chlordane	0.049	U
5103-74-2	gamma-Chlordane	0.0018	JP
8001-35-2	Toxaphene	4.9	U
12674-11-2	Aroclor-1016	0.98	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	0.98	U
53469-21-9	Aroclor-1242	0.98	U
12672-29-6	Aroclor-1248	0.98	U
11097-69-1	Aroclor-1254	0.98	U
11096-82-5	Aroclor-1260	0.98	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW29-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix (soil/water): WATER Lab Sample ID: 945668

Level (low/med): LOW Date Received: 06/16/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	231			P
7440-36-0	Antimony	60.2			P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	116	B		P
7440-41-7	Beryllium	0.29	B		P
7440-43-9	Cadmium	0.60	B		P
7440-70-2	Calcium	85000			P
7440-47-3	Chromium	30.1			P
7440-48-4	Cobalt	1.1	B		P
7440-50-8	Copper	8.1	B		P
7439-89-6	Iron	4430			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	41700			P
7439-96-5	Manganese	66.7			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	51.0			P
7440-09-7	Potassium	2760	B		P
7782-49-2	Selenium	3.1	U		P
7440-22-4	Silver	0.45	B		P
7440-23-5	Sodium	74800			P
7440-28-0	Thallium	4.1	U		P
7440-62-2	Vanadium	1.2	B		P
7440-66-6	Zinc	5.6	B		P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW30-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945254

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CR045254A57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	J
67-64-1	Acetone	3	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW30-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945254

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cr045254a57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW30-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945254

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045254B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW30-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945254

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045254B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW30-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945254

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045254B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	6.39	60	J
2.		UNKNOWN	6.53	2	J
3.		UNKNOWN	12.97	2	J
4.	10544-50-0	SULFUR, MOL. (S8)	13.79	3	NJ
5.		UNKNOWN	17.60	2	J
6.					
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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW30-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945254

Sample wt/vol: 1060 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/12/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/16/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.047	U
319-85-7	beta-BHC	0.047	U
319-86-8	delta-BHC	0.047	U
58-89-9	gamma-BHC (Lindane)	0.047	U
76-44-8	Heptachlor	0.047	U
309-00-2	Aldrin	0.047	U
1024-57-3	Heptachlor epoxide	0.047	U
959-98-8	Endosulfan I	0.047	U
60-57-1	Dieldrin	0.094	U
72-55-9	4,4'-DDE	0.094	U
72-20-8	Endrin	0.094	U
33213-65-9	Endosulfan II	0.094	U
72-54-8	4,4'-DDD	0.094	U
1031-07-8	Endosulfan sulfate	0.094	U
50-29-3	4,4'-DDT	0.094	U
72-43-5	Methoxychlor	0.0066	JP
53494-70-5	Endrin ketone	0.094	U
7421-93-4	Endrin aldehyde	0.094	U
5103-71-9	alpha-Chlordane	0.047	U
5103-74-2	gamma-Chlordane	0.047	U
8001-35-2	Toxaphene	4.7	U
12674-11-2	Aroclor-1016	0.94	U
11104-28-2	Aroclor-1221	1.9	U
11141-16-5	Aroclor-1232	0.94	U
53469-21-9	Aroclor-1242	0.94	U
12672-29-6	Aroclor-1248	0.94	U
11097-69-1	Aroclor-1254	0.94	U
11096-82-5	Aroclor-1260	0.94	U

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW30-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix (soil/water): WATER Lab Sample ID: 945254

Level (low/med): LOW Date Received: 06/12/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	109	B		P
7440-36-0	Antimony	2.6	B		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	228			P
7440-41-7	Beryllium	0.24	B		P
7440-43-9	Cadmium	0.56	B		P
7440-70-2	Calcium	89400			P
7440-47-3	Chromium	3.9	B		P
7440-48-4	Cobalt	5.3	B		P
7440-50-8	Copper	4.4	B		P
7439-89-6	Iron	1600			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	47100			P
7439-96-5	Manganese	59.9			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	10.6	B		P
7440-09-7	Potassium	2230	B		P
7782-49-2	Selenium	3.1	U		P
7440-22-4	Silver	0.30	U		P
7440-23-5	Sodium	49600			P
7440-28-0	Thallium	4.1	U		P
7440-62-2	Vanadium	0.60	U		P
7440-66-6	Zinc	2.3	B		P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW31-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944686

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044686A57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	2	JB
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACSGWMW31-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944686

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn044686a57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW31-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944686

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044686A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW31-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944686

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044686A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: ACSGWMW31-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944686

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044686A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 29

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	6.89	930	J
2.		UNKNOWN (BC)	7.16	40	JB
3.		UNKNOWN (BC)	7.23	18	JB
4.		UNKNOWN SILOXANE (BC)	7.28	8	J
5.		UNKNOWN	7.43	38	J
6.		UNKNOWN	7.69	8	J
7.		UNKNOWN (BC)	8.38	12	JB
8.		UNKNOWN SILOXANE	8.55	170	J
9.		UNKNOWN (BC)	8.77	5	JB
10.		UNKNOWN (BC)	9.56	7	JB
11.		UNKNOWN	9.76	36	J
12.		UNKNOWN	10.00	7	J
13.		UNKNOWN SILOXANE	10.15	42	J
14.		UNKNOWN SILOXANE	10.22	120	J
15.		UNKNOWN	10.29	63	J
16.		UNKNOWN	10.34	22	J
17.		UNKNOWN PHTHALATE	10.47	18	J
18.		UNKNOWN	10.51	12	J
19.		UNKNOWN	10.59	57	J
20.		UNKNOWN SILOXANE	11.25	110	J
21.		UNKNOWN	11.84	14	J
22.		UNKNOWN	12.23	12	J
23.		UNKNOWN SILOXANE	12.37	15	J
24.		UNKNOWN	12.50	17	J
25.		UNKNOWN	12.60	18	J
26.		UNKNOWN	14.02	9	J
27.		UNKNOWN	18.45	20	J
28.		UNKNOWN	19.39	38	J
29.		UNKNOWN	21.88	25	J
30.					

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW31-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944686

Sample wt/vol: 1050 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/11/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/15/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.048	U
319-85-7	beta-BHC	0.014	JP
319-86-8	delta-BHC	0.0013	JP
58-89-9	gamma-BHC (Lindane)	0.048	U
76-44-8	Heptachlor	0.048	U
309-00-2	Aldrin	0.048	U
1024-57-3	Heptachlor epoxide	0.048	U
959-98-8	Endosulfan I	0.048	U
60-57-1	Dieldrin	0.095	U
72-55-9	4,4'-DDE	0.095	U
72-20-8	Endrin	0.095	U
33213-65-9	Endosulfan II	0.095	U
72-54-8	4,4'-DDD	0.095	U
1031-07-8	Endosulfan sulfate	0.095	U
50-29-3	4,4'-DDT	0.095	U
72-43-5	Methoxychlor	0.48	U
53494-70-5	Endrin ketone	0.095	U
7421-93-4	Endrin aldehyde	0.095	U
5103-71-9	alpha-Chlordane	0.048	U
5103-74-2	gamma-Chlordane	0.048	U
8001-35-2	Toxaphene	4.8	U
12674-11-2	Aroclor-1016	0.95	U
11104-28-2	Aroclor-1221	1.9	U
11141-16-5	Aroclor-1232	0.95	U
53469-21-9	Aroclor-1242	0.95	U
12672-29-6	Aroclor-1248	0.95	U
11097-69-1	Aroclor-1254	0.95	U
11096-82-5	Aroclor-1260	0.95	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACSGWMW31-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix (soil/water): WATER Lab Sample ID: 944686

Level (low/med): LOW Date Received: 06/11/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	34.5	B		P
7440-36-0	Antimony	1.0	U		P
7440-38-2	Arsenic	3.5	B		P
7440-39-3	Barium	272			P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.53	B		P
7440-70-2	Calcium	88200			P
7440-47-3	Chromium	8.0	B		P
7440-48-4	Cobalt	1.4	B		P
7440-50-8	Copper	15.0	B		P
7439-89-6	Iron	2900			P
7439-92-1	Lead	2.6	B		P
7439-95-4	Magnesium	35600			P
7439-96-5	Manganese	89.2			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	8.2	B		P
7440-09-7	Potassium	1480	B	E	P
7782-49-2	Selenium	1.6	U		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	21700			P
7440-28-0	Thallium	2.1	U		P
7440-62-2	Vanadium	0.40	U		P
7440-66-6	Zinc	1.3	B		P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW32-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944685

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044685A57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	2	JB
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACSGWMW32-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944685

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn044685a57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
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9.					
10.					
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30.					

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW32-09MS

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944470

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044470B57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	49	
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	48	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	49	
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	50	
108-90-7	Chlorobenzene	49	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW32-09MSD

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944471

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044471B57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	1	JB
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	50	
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	49	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	50	
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	51	
108-90-7	Chlorobenzene	49	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW32-09

Lab Name: COMPU..EM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944685

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044685A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	15	
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW32-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944685

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044685A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACSGWMW32-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944685

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044685A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 28

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN SILOXANE	6.84	100	J
2.		UNKNOWN	7.15	15	J
3.		UNKNOWN	7.44	54	J
4.		UNKNOWN	7.76	9	J
5.		UNKNOWN	8.40	17	J
6.		UNKNOWN SILOXANE	8.52	15	J
7.		UNKNOWN	8.58	9	J
8.		UNKNOWN	8.75	11	J
9.		UNKNOWN	8.87	4	J
10.		UNKNOWN	9.06	12	J
11.		UNKNOWN	9.55	26	J
12.		UNKNOWN	9.85	76	J
13.		UNKNOWN	10.00	16	J
14.		UNKNOWN	10.14	33	J
15.		UNKNOWN	10.41	200	J
16.		UNKNOWN	10.54	56	J
17.		UNKNOWN	10.68	240	J
18.		UNKNOWN	11.27	12	J
19.		UNKNOWN	11.64	8	J
20.		UNKNOWN	11.83	33	J
21.		UNKNOWN	12.00	20	J
22.		UNKNOWN	12.12	10	J
23.		UNKNOWN ALCOHOL	12.27	9	J
24.		UNKNOWN	12.54	16	J
25.		UNKNOWN	12.62	29	J
26.		UNKNOWN	13.04	10	J
27.		UNKNOWN	14.02	25	J
28.		UNKNOWN	15.00	10	J
29.					
30.					

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW32-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944685

Sample wt/vol: 1030 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/11/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/15/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/17/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.048	U
319-85-7	beta-BHC	0.048	U
319-86-8	delta-BHC	0.048	U
58-89-9	gamma-BHC (Lindane)	0.048	U
76-44-8	Heptachlor	0.048	U
309-00-2	Aldrin	0.048	U
1024-57-3	Heptachlor epoxide	0.048	U
959-98-8	Endosulfan I	0.048	U
60-57-1	Dieldrin	0.097	U
72-55-9	4,4'-DDE	0.097	U
72-20-8	Endrin	0.097	U
33213-65-9	Endosulfan II	0.097	U
72-54-8	4,4'-DDD	0.097	U
1031-07-8	Endosulfan sulfate	0.097	U
50-29-3	4,4'-DDT	0.097	U
72-43-5	Methoxychlor	0.48	U
53494-70-5	Endrin ketone	0.097	U
7421-93-4	Endrin aldehyde	0.097	U
5103-71-9	alpha-Chlordane	0.048	U
5103-74-2	gamma-Chlordane	0.048	U
8001-35-2	Toxaphene	4.8	U
12674-11-2	Aroclor-1016	0.97	U
11104-28-2	Aroclor-1221	1.9	U
11141-16-5	Aroclor-1232	0.97	U
53469-21-9	Aroclor-1242	0.97	U
12672-29-6	Aroclor-1248	0.97	U
11097-69-1	Aroclor-1254	0.97	U
11096-82-5	Aroclor-1260	0.97	U

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACSGWMW32-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix (soil/water): WATER Lab Sample ID: 944685

Level (low/med): LOW Date Received: 06/11/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	27.7	B		P
7440-36-0	Antimony	1.0	U		P
7440-38-2	Arsenic	1.4	U		P
7440-39-3	Barium	243			P
7440-41-7	Beryllium	0.23	B		P
7440-43-9	Cadmium	0.56	B		P
7440-70-2	Calcium	71100			P
7440-47-3	Chromium	3.0	B		P
7440-48-4	Cobalt	0.92	B		P
7440-50-8	Copper	1.7	B		P
7439-89-6	Iron	2690			P
7439-92-1	Lead	1.2	B		P
7439-95-4	Magnesium	49300			P
7439-96-5	Manganese	29.3			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	0.57	B		P
7440-09-7	Potassium	3300	B	E	P
7782-49-2	Selenium	1.6	U		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	39500			P
7440-28-0	Thallium	2.1	U		P
7440-62-2	Vanadium	0.40	U		P
7440-66-6	Zinc	0.40	U		P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW33-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945255

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045255B57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	9	J
67-64-1	Acetone	8	JB
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	1	JB
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW33-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945255

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045255b57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 7 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	60-29-7	ETHER	7.56	3	NJ
2.		UNKNOWN ALKANE	8.19	19	J
3.		UNKNOWN ALCOHOL	9.57	8	J
4.		UNKNOWN ALKANE	11.63	16	J
5.	109-99-9	FURAN, TETRAHYDRO-	11.98	148	NJ
6.		UNKNOWN	13.13	7	J
7.	123-91-1	1,4-DIOXANE	14.75	17	NJ
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
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EPA SAMPLE NO.

MW33-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945255

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045255B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW33-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945255

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045255B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW33-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945255

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045255B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	4.47	26	J
2.		UNKNOWN	4.55	12	J
3.		UNKNOWN	5.14	34	J
4.		UNKNOWN	5.20	31	J
5.		UNKNOWN	5.30	21	J
6.		UNKNOWN	6.14	5	J
7.		UNKNOWN	6.39	59	J
8.		UNKNOWN	6.65	260	J
9.		UNKNOWN	6.68	7	J
10.		UNKNOWN	6.85	23	J
11.		UNKNOWN	7.32	22	J
12.		UNKNOWN	7.43	23	J
13.		UNKNOWN	7.59	4	J
14.		UNKNOWN	8.08	29	J
15.		UNKNOWN	8.27	15	J
16.		UNKNOWN	8.34	18	J
17.		UNKNOWN	8.49	9	J
18.	611-01-8	BENZOIC ACID, 2,4-DIMETHYL-	8.71	3	NJ
19.		UNKNOWN	8.93	17	J
20.		UNKNOWN	9.79	16	J
21.	98-73-7	BENZOIC ACID, P-TERT-BUTYL-	9.93	22	NJ
22.		UNKNOWN	9.99	5	J
23.		UNKNOWN	10.28	4	J
24.	101-10-0	PROPANOIC ACID, 2-(3-CHLOROP	10.62	10	NJ
25.		UNKNOWN	11.11	3	J
26.		UNKNOWN	11.77	4	J
27.		UNKNOWN	12.07	5	J
28.		UNKNOWN	13.05	14	J
29.		UNKNOWN	13.12	3	J
30.		UNKNOWN	15.47	14	J

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW33-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945255

Sample wt/vol: 1050 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/12/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/16/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.048	U
319-85-7	beta-BHC	0.017	JPB
319-86-8	delta-BHC	0.048	U
58-89-9	gamma-BHC (Lindane)	0.0025	JP
76-44-8	Heptachlor	0.0070	JP
309-00-2	Aldrin	0.048	U
1024-57-3	Heptachlor epoxide	0.048	U
959-98-8	Endosulfan I	0.048	U
60-57-1	Dieldrin	0.095	U
72-55-9	4,4'-DDE	0.095	U
72-20-8	Endrin	0.095	U
33213-65-9	Endosulfan II	0.095	U
72-54-8	4,4'-DDD	0.0024	JP
1031-07-8	Endosulfan sulfate	0.095	U
50-29-3	4,4'-DDT	0.095	U
72-43-5	Methoxychlor	0.0036	JP
53494-70-5	Endrin ketone	0.095	U
7421-93-4	Endrin aldehyde	0.095	U
5103-71-9	alpha-Chlordane	0.0014	JP
5103-74-2	gamma-Chlordane	0.048	U
8001-35-2	Toxaphene	4.8	U
12674-11-2	Aroclor-1016	0.95	U
11104-28-2	Aroclor-1221	1.9	U
11141-16-5	Aroclor-1232	0.95	U
53469-21-9	Aroclor-1242	0.95	U
12672-29-6	Aroclor-1248	0.95	U
11097-69-1	Aroclor-1254	0.95	U
11096-82-5	Aroclor-1260	0.95	U

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
MW33-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix (soil/water): WATER Lab Sample ID: 945255

Level (low/med): LOW Date Received: 06/12/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	90.2	B		P
7440-36-0	Antimony	2.3	B		P
7440-38-2	Arsenic	16.7			P
7440-39-3	Barium	1060			P
7440-41-7	Beryllium	0.40	B		P
7440-43-9	Cadmium	1.5	B		P
7440-70-2	Calcium	242000			P
7440-47-3	Chromium	5.0	B		P
7440-48-4	Cobalt	2.9	B		P
7440-50-8	Copper	4.7	B		P
7439-89-6	Iron	22400			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	54900			P
7439-96-5	Manganese	75.4			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	9.2	B		P
7440-09-7	Potassium	10500			P
7782-49-2	Selenium	3.1	U		P
7440-22-4	Silver	0.46	B		P
7440-23-5	Sodium	170000			P
7440-28-0	Thallium	4.1	U		P
7440-62-2	Vanadium	0.94	B		P
7440-66-6	Zinc	1.4	B		P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW34-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945707

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CR045707A57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/30/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
71-55-6	1,1,1-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
127-18-4	Tetrachloroethene	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW34-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945707

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cr045707a57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/30/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW34-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix (soil/water): WATER Lab Sample ID: 945707

Level (low/med): LOW Date Received: 06/16/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	119	B		P
7440-36-0	Antimony	1.8	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	187	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.58	B		P
7440-70-2	Calcium	77600			P
7440-47-3	Chromium	13.8			P
7440-48-4	Cobalt	0.70	B		P
7440-50-8	Copper	7.7	B		P
7439-89-6	Iron	3070			P
7439-92-1	Lead	1.1	B		P
7439-95-4	Magnesium	53400			P
7439-96-5	Manganese	19.6			P
7439-97-6	Mercury	0.02	U		CV
7440-02-0	Nickel	12.3	B		P
7440-09-7	Potassium	3820	B	E	P
7782-49-2	Selenium	3.1	U		P
7440-22-4	Silver	0.30	U		P
7440-23-5	Sodium	35100			P
7440-28-0	Thallium	4.1	U		P
7440-62-2	Vanadium	0.60	U		P
7440-66-6	Zinc	5.6	B		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW50-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944694

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044694B57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	2	JB
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWMW50-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944694

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn044694b57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW50-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944694

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044694A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99 40 days

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW50-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944694

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044694A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACSGWMW50-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944694

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044694A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 28

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN SILOXANE	6.84	32	J
2.		UNKNOWN SILOXANE	6.89	8	J
3.		TRIMETHYLBENZENE	7.11	4	J
4.		UNKNOWN	7.42	12	J
5.		UNKNOWN	8.26	7	J
6.		UNKNOWN	8.40	7	J
7.		TETRAMETHYLBENZENE	8.53	9	J
8.		UNKNOWN	8.75	5	J
9.		UNKNOWN	9.41	8	J
10.		UNKNOWN	9.54	23	J
11.		UNKNOWN	9.87	81	J
12.		UNKNOWN	10.00	9	J
13.		UNKNOWN	10.14	15	J
14.		UNKNOWN	10.44	280	J
15.		UNKNOWN	10.56	67	J
16.		UNKNOWN	10.66	150	J
17.		UNKNOWN	11.27	26	J
18.		UNKNOWN	11.52	23	J
19.		UNKNOWN	11.82	20	J
20.		UNKNOWN	11.99	20	J
21.		UNKNOWN	12.26	11	J
22.		UNKNOWN	12.53	11	J
23.		UNKNOWN	12.62	20	J
24.		UNKNOWN	12.77	12	J
25.		UNKNOWN	14.02	13	J
26.		UNKNOWN	14.33	20	J
27.		UNKNOWN	15.02	16	J
28.		UNKNOWN	19.38	28	J
29.					
30.					

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW50-09RE

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944694

Sample wt/vol: 960 (g/mL) ML Lab File ID: GR044694A66

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:07/07/99 27

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/09/99 29

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	26	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	26	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	26	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW50-09RE

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944694

Sample wt/vol: 960 (g/mL) ML Lab File ID: GR044694A66

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:07/07/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/09/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	26	U
100-02-7	4-Nitrophenol	26	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	26	U
534-52-1	4,6-Dinitro-2-methylphenol	26	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	26	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACSGWMW50-09RE

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944694

Sample wt/vol: 960 (g/mL) ML Lab File ID: GR044694A66

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:07/07/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/09/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	6.35	2	J
2.		UNKNOWN (BC)	7.38	7	JB
3.		UNKNOWN (BC)	11.05	2	JB
4.		UNKNOWN	12.19	16	J
5.		UNKNOWN	18.41	3	J
6.		UNKNOWN	18.46	2	J
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1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW50-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944694

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/11/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/15/99 5 days

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99 21 days

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.0090	JP
319-86-8	delta-BHC	0.00098	JP
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.0063	JPB
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACSGWMW50-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix (soil/water): WATER Lab Sample ID: 944694

Level (low/med): LOW Date Received: 06/11/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4440			P
7440-36-0	Antimony	2.3	B		P
7440-38-2	Arsenic	2.9	B		P
7440-39-3	Barium	209			P
7440-41-7	Beryllium	0.41	B		P
7440-43-9	Cadmium	0.71	B		P
7440-70-2	Calcium	141000			P
7440-47-3	Chromium	146			P
7440-48-4	Cobalt	5.7	B		P
7440-50-8	Copper	12.6	B		P
7439-89-6	Iron	10300			P
7439-92-1	Lead	4.0			P
7439-95-4	Magnesium	66500			P
7439-96-5	Manganese	184			P
7439-97-6	Mercury	1.1			CV
7440-02-0	Nickel	109			P
7440-09-7	Potassium	9530		E	P
7782-49-2	Selenium	3.1	U	N	P
7440-22-4	Silver	0.30	U		P
7440-23-5	Sodium	304000			P
7440-28-0	Thallium	4.1	U		P
7440-62-2	Vanadium	8.3	B		P
7440-66-6	Zinc	19.1	B	*	P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW51-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945253

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045253B57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	8	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW51-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945253

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045253b57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	60-29-7	ETHER	7.71	3685	NJ
2.		UNKNOWN ALCOHOL	9.59	86	J
3.	109-99-9	FURAN, TETRAHYDRO-	11.98	81	NJ
4.	123-91-1	1,4-DIOXANE	14.75	15	NJ
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW51-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945253

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045253B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW51-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945253

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045253B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW51-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945253

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045253B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	4.49	12	J
2.		UNKNOWN	4.60	21	J
3.		UNKNOWN SILOXANE	4.91	17	J
4.		UNKNOWN	5.20	23	J
5.		UNKNOWN	5.58	10	J
6.		UNKNOWN	6.24	9	J
7.		UNKNOWN	6.43	54	J
8.		UNKNOWN	6.60	94	J
9.		UNKNOWN	6.78	6	J
10.		UNKNOWN	7.27	7	J
11.		UNKNOWN	7.81	17	J
12.		UNKNOWN	7.98	9	J
13.		UNKNOwN	8.08	34	J
14.		UNKNOWN	8.39	18	J
15.	632-46-2	BENZOIC ACID, 2,6-DIMETHYL-	8.52	7	NJ
16.		UNKNOWN	8.96	22	J
17.		UNKNOWN	9.23	14	J
18.		UNKNOWN	9.37	24	J
19.		UNKNOWN	10.01	23	J
20.		UNKNOWN	10.65	21	J
21.		UNKNOWN	10.79	8	J
22.		UNKNOWN	11.53	5	J
23.		UNKNOWN	11.77	6	J
24.		UNKNOWN	11.90	12	J
25.		UNKNOWN	12.07	7	J
26.		UNKNOWN	12.54	14	J
27.		UNKNOWN	12.60	20	J
28.		UNKNOWN	12.73	6	J
29.		UNKNOWN	13.09	5	J
30.		UNKNOWN CARBOXYLIC ACID	14.34	4	J

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW51-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945253

Sample wt/vol: 1040 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/12/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/16/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.0015	JP
319-85-7	beta-BHC	0.048	U
319-86-8	delta-BHC	0.048	U
58-89-9	gamma-BHC (Lindane)	0.048	U
76-44-8	Heptachlor	0.048	U
309-00-2	Aldrin	0.048	U
1024-57-3	Heptachlor epoxide	0.048	U
959-98-8	Endosulfan I	0.048	U
60-57-1	Dieldrin	0.096	U
72-55-9	4,4'-DDE	0.096	U
72-20-8	Endrin	0.096	U
33213-65-9	Endosulfan II	0.096	U
72-54-8	4,4'-DDD	0.096	U
1031-07-8	Endosulfan sulfate	0.096	U
50-29-3	4,4'-DDT	0.096	U
72-43-5	Methoxychlor	0.48	U
53494-70-5	Endrin ketone	0.096	U
7421-93-4	Endrin aldehyde	0.096	U
5103-71-9	alpha-Chlordane	0.048	U
5103-74-2	gamma-Chlordane	0.048	U
8001-35-2	Toxaphene	4.8	U
12674-11-2	Aroclor-1016	0.96	U
11104-28-2	Aroclor-1221	1.9	U
11141-16-5	Aroclor-1232	0.96	U
53469-21-9	Aroclor-1242	0.96	U
12672-29-6	Aroclor-1248	0.96	U
11097-69-1	Aroclor-1254	0.96	U
11096-82-5	Aroclor-1260	0.96	U

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW51-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix (soil/water): WATER Lab Sample ID: 945253

Level (low/med): LOW Date Received: 06/12/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	166	B		P
7440-36-0	Antimony	1.8	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	391			P
7440-41-7	Beryllium	0.44	B		P
7440-43-9	Cadmium	0.81	B		P
7440-70-2	Calcium	131000			P
7440-47-3	Chromium	1.6	B		P
7440-48-4	Cobalt	0.76	B		P
7440-50-8	Copper	1.7	B		P
7439-89-6	Iron	7400			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	62600			P
7439-96-5	Manganese	88.6			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	3.1	B		P
7440-09-7	Potassium	2410	B		P
7782-49-2	Selenium	3.1	B		P
7440-22-4	Silver	0.30	U		P
7440-23-5	Sodium	98800			P
7440-28-0	Thallium	4.1	U		P
7440-62-2	Vanadium	0.77	B		P
7440-66-6	Zinc	1.1	U		P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW52-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945688

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045688B57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/30/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 10.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	100	U
74-83-9	Bromomethane	100	U
75-01-4	Vinyl Chloride	100	U
75-00-3	Chloroethane	100	U
75-09-2	Methylene Chloride	100	U
67-64-1	Acetone	100	U
75-15-0	Carbon Disulfide	100	U
75-35-4	1,1-Dichloroethene	100	U
75-34-3	1,1-Dichloroethane	100	U
67-66-3	Chloroform	100	U
107-06-2	1,2-Dichloroethane	100	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	100	U
56-23-5	Carbon Tetrachloride	100	U
75-27-4	Bromodichloromethane	100	U
78-87-5	1,2-Dichloropropane	100	U
10061-01-5	cis-1,3-Dichloropropene	100	U
79-01-6	Trichloroethene	100	U
124-48-1	Dibromochloromethane	100	U
79-00-5	1,1,2-Trichloroethane	100	U
71-43-2	Benzene	100	U
10061-02-6	trans-1,3-Dichloropropene	100	U
75-25-2	Bromoform	100	U
108-10-1	4-Methyl-2-Pentanone	100	U
591-78-6	2-Hexanone	100	U
127-18-4	Tetrachloroethene	100	U
79-34-5	1,1,2,2-Tetrachloroethane	100	U
108-88-3	Toluene	100	U
108-90-7	Chlorobenzene	100	U
100-41-4	Ethylbenzene	100	U
100-42-5	Styrene	100	U
1330-20-7	Xylene (Total)	100	U
540-59-0	1,2-Dichloroethene (total)	100	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW52-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945688

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045688b57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/30/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 10.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	60-29-7	ETHER	7.56	10940	NJ
2.		UNKNOWN ALCOHOL	9.57	125	J
3.	109-99-9	FURAN, TETRAHYDRO-	11.98	97	NJ
4.					
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW52-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945688

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045688A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/22/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/14/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW52-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945688

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045688A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/22/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/14/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	6	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW52-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945688

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045688A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/22/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/14/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	5.42	5	J
2.		UNKNOWN	6.05	19	J
3.		UNKNOWN	6.11	14	J
4.		UNKNOWN	6.35	62	J
5.		UNKNOWN	6.39	11	J
6.		UNKNOWN	7.07	23	J
7.		UNKNOWN	7.42	110	J
8.		UNKNOWN	7.63	4	J
9.		UNKNOWN	7.95	5	J
10.		UNKNOWN	8.21	5	J
11.		UNKNOWN	9.00	4	J
12.		UNKNOWN	9.24	5	J
13.		UNKNOWN	9.28	6	J
14.		UNKNOWN	9.38	4	J
15.		UNKNOWN	9.59	11	J
16.		UNKNOWN	9.68	6	J
17.		UNKNOWN	10.54	15	J
18.		UNKNOWN	10.63	10	J
19.		UNKNOWN	11.38	12	J
20.		UNKNOWN	12.15	15	J
21.		UNKNOWN	12.85	7	J
22.		UNKNOWN	12.89	5	J
23.		UNKNOWN	13.38	5	J
24.		UNKNOWN	13.64	7	J
25.		UNKNOWN	14.31	14	J
26.		UNKNOWN	14.38	5	J
27.		UNKNOWN	14.52	5	J
28.		UNKNOWN	14.56	6	J
29.		UNKNOWN CARBOXYLIC ACID	15.01	5	J
30.		UNKNOWN	15.41	10	J

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW52-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945688

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/16/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/18/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 06/25/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.0025	J
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.0038	JP
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW52-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix (soil/water): WATER Lab Sample ID: 945688

Level (low/med): LOW Date Received: 06/16/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	381			P
7440-36-0	Antimony	1.8	U		P
7440-38-2	Arsenic	3.3	B		P
7440-39-3	Barium	307			P
7440-41-7	Beryllium	0.16	B		P
7440-43-9	Cadmium	0.86	B		P
7440-70-2	Calcium	107000			P
7440-47-3	Chromium	3.0	B		P
7440-48-4	Cobalt	1.1	B		P
7440-50-8	Copper	1.9	B		P
7439-89-6	Iron	4630			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	44300			P
7439-96-5	Manganese	139			P
7439-97-6	Mercury	0.02	U		CV
7440-02-0	Nickel	5.0	B		P
7440-09-7	Potassium	2360	B	E	P
7782-49-2	Selenium	3.1	U		P
7440-22-4	Silver	0.36	B		P
7440-23-5	Sodium	155000			P
7440-28-0	Thallium	4.1	U		P
7440-62-2	Vanadium	1.3	B		P
7440-66-6	Zinc	1.2	B		P
	Cyanide	9.0	B		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW53-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945704

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045704B57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/30/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	100	
67-64-1	Acetone	30	B
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	3	JB
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	4	J
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	3	JB
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	1	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW53-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945704

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045704b57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/30/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 7 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	109-87-5	METHANE, DIMETHOXY-	8.18	13	NJ
2.		UNKNOWN ALCOHOL	9.55	17	J
3.		UNKNOWN	11.63	8	J
4.	109-99-9	FURAN, TETRAHYDRO-	11.97	19	NJ
5.		UNKNOWN	13.13	6	J
6.	123-91-1	1,4-DIOXANE	14.74	30	NJ
7.	873-94-9	CYCLOHEXANONE, 3,3,5-TRIMETH	21.73	6	NJ
8.					
9.					
10.					
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30.					

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW53-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945704

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GJ045704A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/22/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/15/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW53-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945704

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GJ045704A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/22/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/15/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	14	
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW53-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945704

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GJ045704A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/22/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/15/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 32

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN (BC)	5.21	30	JB
2.		TRICHLOROPROPENE (BC)	5.32	38	JB
3.		UNKNOWN	5.40	53	J
4.		UNKNOWN	5.54	29	J
5.	20324-32-7	2-PROPANOL, 1-(2-METHOXY-1-M	6.00	23	NJ
6.	110-98-5	2-PROPANOL, 1,1'-OXYBIS-	6.03	15	NJ
7.		UNKNOWN	6.96	48	J
8.		UNKNOWN	7.35	190	J
9.		UNKNOWN	7.58	320	J
10.		UNKNOWN CARBOXYLIC ACID	7.80	16	J
11.		UNKNOWN	8.33	34	J
12.		UNKNOWN	8.47	27	J
13.		UNKNOWN	8.54	12	J
14.		UNKNOWN	8.75	8	J
15.		UNKNOWN	9.14	12	J
16.		UNKNOWN	9.47	11	J
17.		UNKNOWN	9.63	11	J
18.		UNKNOWN	9.79	8	J
19.		UNKNOWN	10.07	45	J
20.		UNKNOWN	10.54	10	J
21.		UNKNOWN	10.59	8	J
22.		UNKNOWN	11.12	62	J
23.		UNKNOWN	11.26	30	J
24.		UNKNOWN	11.40	12	J
25.	101-10-0	PROPANOIC ACID, 2-(3-CHLOROP	12.05	65	NJ
26.		UNKNOWN	12.20	8	J
27.		UNKNOWN	12.57	10	J
28.		UNKNOWN	13.34	10	J
29.		UNKNOWN	14.69	16	J
30.		UNKNOWN	14.76	21	J

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW53-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945704

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GJ045704A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/22/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/15/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 32

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	14.94	49	J
2.		UNKNOWN	16.34	11	J
3.					
4.					
5.					
6.					
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1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW53-09

Lab Name: COMPUCHEM Contrac.: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945704

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/16/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/18/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 06/25/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.0082	J
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.0085	JP
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.0069	JP
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW53-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix (soil/water): WATER Lab Sample ID: 945704

Level (low/med): LOW Date Received: 06/16/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	229			P
7440-36-0	Antimony	3.3	B		P
7440-38-2	Arsenic	3.4	B		P
7440-39-3	Barium	1420			P
7440-41-7	Beryllium	0.29	B		P
7440-43-9	Cadmium	1.4	B		P
7440-70-2	Calcium	246000			P
7440-47-3	Chromium	2.3	B		P
7440-48-4	Cobalt	3.2	B		P
7440-50-8	Copper	1.1	U		P
7439-89-6	Iron	25800			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	93200			P
7439-96-5	Manganese	83.9			P
7439-97-6	Mercury	0.08	B		CV
7440-02-0	Nickel	8.6	B		P
7440-09-7	Potassium	20900		E	P
7782-49-2	Selenium	3.1	U		P
7440-22-4	Silver	0.30	U		P
7440-23-5	Sodium	339000			P
7440-28-0	Thallium	4.1	U		P
7440-62-2	Vanadium	1.9	B		P
7440-66-6	Zinc	1.5	B		P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW54R-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944688

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044688A57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	6	JB
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	1	J
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWMW54R-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944688

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn044688a57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	75-65-0	2-PROPANOL, 2-METHYL-	9.55	6	NJ
2.					
3.					
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW54R-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944688

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044688A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	33	
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW54R-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944688

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044688A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACSGWMW54R-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944688

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044688A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 14

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN SILOXANE	6.86	150	J
2.		UNKNOWN (BC)	7.15	17	JB
3.		UNKNOWN	7.43	71	J
4.		UNKNOWN	8.40	34	J
5.		UNKNOWN SILOXANE	8.53	24	J
6.		UNKNOWN	9.75	18	J
7.		UNKNOWN	10.29	67	J
8.		UNKNOWN	10.61	160	J
9.		UNKNOWN	11.20	19	J
10.		UNKNOWN	12.23	12	J
11.		UNKNOWN (BC)	12.60	20	JB
12.		UNKNOWN	14.75	60	J
13.		UNKNOWN	18.45	20	J
14.		UNKNOWN SILOXANE	19.06	55	J
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1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW54R-0

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944688

Sample wt/vol: 1040 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/11/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/15/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.048	U
319-85-7	beta-BHC	0.012	JP
319-86-8	delta-BHC	0.0018	J
58-89-9	gamma-BHC (Lindane)	0.048	U
76-44-8	Heptachlor	0.048	U
309-00-2	Aldrin	0.048	U
1024-57-3	Heptachlor epoxide	0.048	U
959-98-8	Endosulfan I	0.048	U
60-57-1	Dieldrin	0.096	U
72-55-9	4,4'-DDE	0.096	U
72-20-8	Endrin	0.096	U
33213-65-9	Endosulfan II	0.096	U
72-54-8	4,4'-DDD	0.096	U
1031-07-8	Endosulfan sulfate	0.096	U
50-29-3	4,4'-DDT	0.096	U
72-43-5	Methoxychlor	0.48	U
53494-70-5	Endrin ketone	0.096	U
7421-93-4	Endrin aldehyde	0.096	U
5103-71-9	alpha-Chlordane	0.048	U
5103-74-2	gamma-Chlordane	0.048	U
8001-35-2	Toxaphene	4.8	U
12674-11-2	Aroclor-1016	0.96	U
11104-28-2	Aroclor-1221	1.9	U
11141-16-5	Aroclor-1232	0.96	U
53469-21-9	Aroclor-1242	0.96	U
12672-29-6	Aroclor-1248	0.96	U
11097-69-1	Aroclor-1254	0.96	U
11096-82-5	Aroclor-1260	0.96	U

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACSGWMW54R-0

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix (soil/water): WATER Lab Sample ID: 944688

Level (low/med): LOW Date Received: 06/11/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	63.8	B		P
7440-36-0	Antimony	1.0	U		P
7440-38-2	Arsenic	1.8	B		P
7440-39-3	Barium	237			P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	1.1	B		P
7440-70-2	Calcium	139000			P
7440-47-3	Chromium	4.1	B		P
7440-48-4	Cobalt	1.0	B		P
7440-50-8	Copper	1.7	B		P
7439-89-6	Iron	4570			P
7439-92-1	Lead	2.0	B		P
7439-95-4	Magnesium	60900			P
7439-96-5	Manganese	88.4			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	3.2	B		P
7440-09-7	Potassium	2100	B	E	P
7782-49-2	Selenium	1.6	U		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	38300			P
7440-28-0	Thallium	2.1	U		P
7440-62-2	Vanadium	0.40	U		P
7440-66-6	Zinc	0.40	U		P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW55-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944689

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044689A57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	3	JB
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACSGWMW55-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944689

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn044689a57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	1120-21-4	UNDECANE	21.57	6	NJ
2.	112-40-3	DODECANE	22.83	8	NJ
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: ACSGWMW55R-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944689

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044689A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW55R-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944689

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044689A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: ACSGWMW55R-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944689

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044689A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 22 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN SILOXANE	6.86	170	J
2.		UNKNOWN SILOXANE	6.91	9	J
3.		UNKNOWN (BC)	7.14	6	JB
4.		UNKNOWN (BC)	7.43	16	JB
5.		UNKNOWN SILOXANE	8.53	11	J
6.		UNKNOWN	9.04	10	J
7.		UNKNOWN	9.49	17	J
8.		UNKNOWN	9.78	82	J
9.		UNKNOWN (BC)	10.03	19	JB
10.		UNKNOWN	10.34	260	J
11.		UNKNOWN	10.47	32	J
12.		UNKNOWN	10.56	100	J
13.		UNKNOWN SILOXANE	11.44	32	J
14.		UNKNOWN SILOXANE	11.47	34	J
15.		UNKNOWN	11.62	34	J
16.		UNKNOWN	11.84	16	J
17.		UNKNOWN	12.52	10	J
18.		UNKNOWN	12.60	10	J
19.		UNKNOWN	12.87	3	J
20.		UNKNOWN	14.80	23	J
21.		UNKNOWN	15.02	11	J
22.		UNKNOWN	19.33	6	J
23.					
24.					
25.					
26.					
27.					
28.					
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1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW55R-0

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944689

Sample wt/vol: 1010 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/11/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/15/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.016	JP
319-86-8	delta-BHC	0.0023	JP
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.099	U
72-55-9	4,4'-DDE	0.099	U
72-20-8	Endrin	0.099	U
33213-65-9	Endosulfan II	0.099	U
72-54-8	4,4'-DDD	0.099	U
1031-07-8	Endosulfan sulfate	0.099	U
50-29-3	4,4'-DDT	0.099	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.099	U
7421-93-4	Endrin aldehyde	0.099	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	0.99	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	0.99	U
53469-21-9	Aroclor-1242	0.99	U
12672-29-6	Aroclor-1248	0.99	U
11097-69-1	Aroclor-1254	0.99	U
11096-82-5	Aroclor-1260	0.99	U

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACSGWMW55-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix (soil/water): WATER Lab Sample ID: 944689

Level (low/med): LOW Date Received: 06/11/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	182	B		P
7440-36-0	Antimony	1.0	U		P
7440-38-2	Arsenic	2.1	B		P
7440-39-3	Barium	261			P
7440-41-7	Beryllium	0.26	B		P
7440-43-9	Cadmium	0.77	B		P
7440-70-2	Calcium	74500			P
7440-47-3	Chromium	3.6	B		P
7440-48-4	Cobalt	1.8	B		P
7440-50-8	Copper	5.9	B		P
7439-89-6	Iron	370			P
7439-92-1	Lead	2.0	B		P
7439-95-4	Magnesium	53600			P
7439-96-5	Manganese	113			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	3.2	B		P
7440-09-7	Potassium	4090	B	E	P
7782-49-2	Selenium	1.6	U		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	45800			P
7440-28-0	Thallium	2.7	B		P
7440-62-2	Vanadium	0.40	U		P
7440-66-6	Zinc	0.40	U		P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWATMW40-09D

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944690

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CR044690B57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	4	JB
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWATMW40D-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944690

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cr044690b57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	109-99-9	FURAN, TETRAHYDRO-	11.98	7	NJ
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWATMW40-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944690

Sample wt/vol: 970 (g/mL) ML Lab File ID: GH044690A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
A108-95-2	Phenol	10	U
B111-44-4	bis(2-Chloroethyl)ether	10	U
A95-57-8	2-Chlorophenol	10	U
B541-73-1	1,3-Dichlorobenzene	10	U
B106-46-7	1,4-Dichlorobenzene	10	U
B95-50-1	1,2-Dichlorobenzene	10	U
A95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
A106-44-5	4-Methylphenol	10	U
B621-64-7	N-Nitroso-di-n-propylamine	10	U
B67-72-1	Hexachloroethane	10	U
B98-95-3	Nitrobenzene	10	U
B78-59-1	Isophorone	10	U
A88-75-5	2-Nitrophenol	10	U
A105-67-9	2,4-Dimethylphenol	10	U
B111-91-1	bis(2-Chloroethoxy)methane	10	U
A120-83-2	2,4-Dichlorophenol	10	U
B120-82-1	1,2,4-Trichlorobenzene	10	U
B91-20-3	Naphthalene	10	U
B106-47-8	4-Chloroaniline	10	U
B87-68-3	Hexachlorobutadiene	10	U
A59-50-7	4-Chloro-3-methylphenol	10	U
B91-57-6	2-Methylnaphthalene	10	U
B77-47-4	Hexachlorocyclopentadiene	10	U
A88-06-2	2,4,6-Trichlorophenol	10	U
A95-95-4	2,4,5-Trichlorophenol	26	U
B91-58-7	2-Chloronaphthalene	10	U
B88-74-4	2-Nitroaniline	26	U
B131-11-3	Dimethylphthalate	10	U
B208-96-8	Acenaphthylene	10	U
B606-20-2	2,6-Dinitrotoluene	10	U
B99-09-2	3-Nitroaniline	26	U
B83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWATMW40-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944690

Sample wt/vol: 970 (g/mL) ML Lab File ID: GH044690A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
A51-28-5	2,4-Dinitrophenol	26	U
A100-02-7	4-Nitrophenol	26	U
B132-64-9	Dibenzofuran	10	U
B121-14-2	2,4-Dinitrotoluene	10	U
B84-66-2	Diethylphthalate	10	U
B7005-72-3	4-Chlorophenyl-phenylether	10	U
B86-73-7	Fluorene	10	U
B100-01-6	4-Nitroaniline	26	U
A534-52-1	4,6-Dinitro-2-methylphenol	26	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
B101-55-3	4-Bromophenyl-phenylether	10	U
B118-74-1	Hexachlorobenzene	10	U
A87-86-5	Pentachlorophenol	26	U
B85-01-8	Phenanthrene	10	U
B120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
B84-74-2	Di-n-butylphthalate	10	U
B206-44-0	Fluoranthene	10	U
B129-00-0	Pyrene	10	U
B85-68-7	Butylbenzylphthalate	10	U
B91-94-1	3,3'-Dichlorobenzidine	10	U
B56-55-3	Benzo(a)anthracene	10	U
B218-01-9	Chrysene	10	U
B117-81-7	bis(2-Ethylhexyl)phthalate	10	U
B117-84-0	Di-n-octylphthalate	10	U
B205-99-2	Benzo(b)fluoranthene	10	U
B207-08-9	Benzo(k)fluoranthene	10	U
B50-32-8	Benzo(a)pyrene	10	U
B193-39-5	Indeno(1,2,3-cd)pyrene	10	U
B53-70-3	Dibenzo(a,h)anthracene	10	U
B191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWATMW40-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944690

Sample wt/vol: 970 (g/mL) ML Lab File ID: GH044690A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 25

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN SILOXANE	6.85	19	J
2.		UNKNOWN	6.90	15	J
3.		UNKNOWN	7.42	16	J
4.		UNKNOWN	8.40	4	J
5.		UNKNOWN SILOXANE	8.52	4	J
6.		UNKNOWN	8.74	3	J
7.		UNKNOWN (BC)	9.06	4	JB
8.		UNKNOWN	9.40	8	J
9.		UNKNOWN	9.55	9	J
10.		UNKNOWN	9.82	56	J
11.		UNKNOWN (BC)	9.99	4	JB
12.		UNKNOWN	10.12	10	J
13.		UNKNOWN	10.39	190	J
14.		UNKNOWN	10.53	26	J
15.		UNKNOWN	10.63	84	J
16.		UNKNOWN	11.24	23	J
17.		UNKNOWN	12.12	6	J
18.		UNKNOWN	12.25	7	J
19.		UNKNOWN	12.52	9	J
20.		UNKNOWN	12.62	12	J
21.		UNKNOWN	12.76	7	J
22.		UNKNOWN	14.90	4	J
23.		UNKNOWN	15.01	16	J
24.		UNKNOWN	16.26	6	J
25.		UNKNOWN	18.82	54	J
26.					
27.					
28.					
29.					
30.					

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWATMW40-

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944690

Sample wt/vol: 980.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/11/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/15/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/17/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.051	U
319-85-7	beta-BHC	0.051	U
319-86-8	delta-BHC	0.051	U
58-89-9	gamma-BHC (Lindane)	0.051	U
76-44-8	Heptachlor	0.051	U
309-00-2	Aldrin	0.051	U
1024-57-3	Heptachlor epoxide	0.051	U
959-98-8	Endosulfan I	0.051	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.51	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.051	U
5103-74-2	gamma-Chlordane	0.051	U
8001-35-2	Toxaphene	5.1	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACSGWATMW40-

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix (soil/water): WATER Lab Sample ID: 944690

Level (low/med): LOW Date Received: 06/11/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	296			P
7440-36-0	Antimony	1.0	U		P
7440-38-2	Arsenic	1.4	U		P
7440-39-3	Barium	110	B		P
7440-41-7	Beryllium	0.29	B		P
7440-43-9	Cadmium	0.99	B		P
7440-70-2	Calcium	87200			P
7440-47-3	Chromium	8.4	B		P
7440-48-4	Cobalt	0.97	B		P
7440-50-8	Copper	2.7	B		P
7439-89-6	Iron	1580			P
7439-92-1	Lead	2.0	B		P
7439-95-4	Magnesium	48200			P
7439-96-5	Manganese	117			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	10.4	B		P
7440-09-7	Potassium	6300		E	P
7782-49-2	Selenium	1.6	U		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	62500			P
7440-28-0	Thallium	2.1	U		P
7440-62-2	Vanadium	0.40	U		P
7440-66-6	Zinc	0.40	U		P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB01-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944519

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044519B57

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	J
67-64-1	Acetone	3	JB
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB01-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944519

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn044519b57

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWTB02-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944730

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044730A57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWTB02-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944730

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn044730a57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB03-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945272

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CR045272A57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	2	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB03-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945272

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cr045272a57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB04-09

Lab Name: C MPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945497

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: C2R45497B57

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: not dec. _____ Date Analyzed: 06/28/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB04-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945497

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: c2r45497b57

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: not dec. _____ Date Analyzed: 06/28/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB05-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945708

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045708B57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/30/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	2	JB
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB05-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945708

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045708b57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/30/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB01-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944517

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044517B57

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	J
67-64-1	Acetone	9	JB
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	1	J
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	2	JB
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FB01-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944517

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn044517b57

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: not dec. _____ Date Analyzed: 06/23/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB01-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944517

Sample wt/vol: 1050 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/10/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/12/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.048	U
319-85-7	beta-BHC	0.048	U
319-86-8	delta-BHC	0.048	U
58-89-9	gamma-BHC (Lindane)	0.048	U
76-44-8	Heptachlor	0.048	U
309-00-2	Aldrin	0.048	U
1024-57-3	Heptachlor epoxide	0.048	U
959-98-8	Endosulfan I	0.048	U
60-57-1	Dieldrin	0.095	U
72-55-9	4,4'-DDE	0.095	U
72-20-8	Endrin	0.095	U
33213-65-9	Endosulfan II	0.095	U
72-54-8	4,4'-DDD	0.095	U
1031-07-8	Endosulfan sulfate	0.095	U
50-29-3	4,4'-DDT	0.095	U
72-43-5	Methoxychlor	0.48	U
53494-70-5	Endrin ketone	0.095	U
7421-93-4	Endrin aldehyde	0.095	U
5103-71-9	alpha-Chlordane	0.048	U
5103-74-2	gamma-Chlordane	0.048	U
8001-35-2	Toxaphene	4.8	U
12674-11-2	Aroclor-1016	0.95	U
11104-28-2	Aroclor-1221	1.9	U
11141-16-5	Aroclor-1232	0.95	U
53469-21-9	Aroclor-1242	0.95	U
12672-29-6	Aroclor-1248	0.95	U
11097-69-1	Aroclor-1254	0.95	U
11096-82-5	Aroclor-1260	0.95	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

FB01-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix (soil/water): WATER Lab Sample ID: 944517

Level (low/med): LOW Date Received: 06/10/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	27.2	B		P
7440-36-0	Antimony	1.3	B		P
7440-38-2	Arsenic	1.4	U		P
7440-39-3	Barium	0.80	B		P
7440-41-7	Beryllium	0.27	B		P
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium	58.4	B		P
7440-47-3	Chromium	2.0	B		P
7440-48-4	Cobalt	0.93	B		P
7440-50-8	Copper	0.40	B		P
7439-89-6	Iron	22.1	B		P
7439-92-1	Lead	1.1	B		P
7439-95-4	Magnesium	117	B		P
7439-96-5	Manganese	1.0	B		P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	0.50	U		P
7440-09-7	Potassium	11.1	U	E	P
7782-49-2	Selenium	1.6	U		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	1560	B		P
7440-28-0	Thallium	2.1	U		P
7440-62-2	Vanadium	0.40	U		P
7440-66-6	Zinc	2.3	B		P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB02-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945238

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045238B57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	8	J
67-64-1	Acetone	7	JB
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	4	J
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	3	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	2	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FB02-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945238

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045238b57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. _____ Date Analyzed: 06/24/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB02-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945238

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045238B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB02-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945238

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045238B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FB02-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945238

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045238B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB02-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945238

Sample wt/vol: 1050 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/12/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/16/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.048	U
319-85-7	beta-BHC	0.048	U
319-86-8	delta-BHC	0.048	U
58-89-9	gamma-BHC (Lindane)	0.048	U
76-44-8	Heptachlor	0.048	U
309-00-2	Aldrin	0.048	U
1024-57-3	Heptachlor epoxide	0.048	U
959-98-8	Endosulfan I	0.048	U
60-57-1	Dieldrin	0.095	U
72-55-9	4,4'-DDE	0.095	U
72-20-8	Endrin	0.095	U
33213-65-9	Endosulfan II	0.095	U
72-54-8	4,4'-DDD	0.095	U
1031-07-8	Endosulfan sulfate	0.095	U
50-29-3	4,4'-DDT	0.095	U
72-43-5	Methoxychlor	0.48	U
53494-70-5	Endrin ketone	0.095	U
7421-93-4	Endrin aldehyde	0.095	U
5103-71-9	alpha-Chlordane	0.048	U
5103-74-2	gamma-Chlordane	0.048	U
8001-35-2	Toxaphene	4.8	U
12674-11-2	Aroclor-1016	0.95	U
11104-28-2	Aroclor-1221	1.9	U
11141-16-5	Aroclor-1232	0.95	U
53469-21-9	Aroclor-1242	0.95	U
12672-29-6	Aroclor-1248	0.95	U
11097-69-1	Aroclor-1254	0.95	U
11096-82-5	Aroclor-1260	0.95	U

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

FB02-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix (soil/water): WATER Lab Sample ID: 945238

Level (low/med): LOW Date Received: 06/12/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	33.2	U		P
7440-36-0	Antimony	1.8	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	0.92	B		P
7440-41-7	Beryllium	0.24	B		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	251	B		P
7440-47-3	Chromium	1.2	B		P
7440-48-4	Cobalt	0.60	U		P
7440-50-8	Copper	1.1	U		P
7439-89-6	Iron	38.0	B		P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	93.1	B		P
7439-96-5	Manganese	0.81	B		P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	61.8	U		P
7782-49-2	Selenium	3.1	U		P
7440-22-4	Silver	0.30	U		P
7440-23-5	Sodium	846	B		P
7440-28-0	Thallium	4.1	U		P
7440-62-2	Vanadium	0.60	U		P
7440-66-6	Zinc	5.1	B		P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB03-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945491

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: C2R45491B57

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: not dec. _____ Date Analyzed: 06/28/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	49	
67-64-1	Acetone	10	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	1	J
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	2	J
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	1	J
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FB03-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945491

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: c2r45491b57

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: not dec. _____ Date Analyzed: 06/28/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB03-09RE

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945491

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: C3R45491B57

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: not dec. _____ Date Analyzed: 06/29/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	44	
67-64-1	Acetone	10	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	1	J
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	2	J
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	1	J
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FB03-09RE

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945491

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: c3r45491b57

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: not dec. _____ Date Analyzed: 06/29/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB03-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945491

Sample wt/vol: 1040 (g/mL) ML Lab File ID: GH045491A66

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB03-09

Lab Name: CO..PUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945491

Sample wt/vol: 1040 (g/mL) ML Lab File ID: GH045491A66

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FB03-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945491

Sample wt/vol: 1040 (g/mL) ML Lab File ID: GH045491A66

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	11.42	3	J
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1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB03-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945491

Sample wt/vol: 1050 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/15/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/17/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.048	U
319-85-7	beta-BHC	0.048	U
319-86-8	delta-BHC	0.0017	JP
58-89-9	gamma-BHC (Lindane)	0.048	U
76-44-8	Heptachlor	0.048	U
309-00-2	Aldrin	0.0046	JP
1024-57-3	Heptachlor epoxide	0.048	U
959-98-8	Endosulfan I	0.048	U
60-57-1	Dieldrin	0.095	U
72-55-9	4,4'-DDE	0.095	U
72-20-8	Endrin	0.095	U
33213-65-9	Endosulfan II	0.095	U
72-54-8	4,4'-DDD	0.095	U
1031-07-8	Endosulfan sulfate	0.095	U
50-29-3	4,4'-DDT	0.095	U
72-43-5	Methoxychlor	0.010	JP
53494-70-5	Endrin ketone	0.095	U
7421-93-4	Endrin aldehyde	0.095	U
5103-71-9	alpha-Chlordane	0.048	U
5103-74-2	gamma-Chlordane	0.0015	JP
8001-35-2	Toxaphene	4.8	U
12674-11-2	Aroclor-1016	0.95	U
11104-28-2	Aroclor-1221	1.9	U
11141-16-5	Aroclor-1232	0.95	U
53469-21-9	Aroclor-1242	0.95	U
12672-29-6	Aroclor-1248	0.95	U
11097-69-1	Aroclor-1254	0.95	U
11096-82-5	Aroclor-1260	0.95	U

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSES DATA SHEET

FB03-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix (soil/water): WATER Lab Sample ID: 945491

Level (low/med): LOW Date Received: 06/15/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	33.2	U		P
7440-36-0	Antimony	1.8	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	0.46	B		P
7440-41-7	Beryllium	0.23	B		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	82.3	B		P
7440-47-3	Chromium	1.4	B		P
7440-48-4	Cobalt	0.60	U		P
7440-50-8	Copper	1.1	U		P
7439-89-6	Iron	80.6	B		P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	38.5	B		P
7439-96-5	Manganese	0.95	B		P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	1.1	B		P
7440-09-7	Potassium	61.8	U		P
7782-49-2	Selenium	3.1	U		P
7440-22-4	Silver	0.30	U		P
7440-23-5	Sodium	2220	B		P
7440-28-0	Thallium	4.1	U		P
7440-62-2	Vanadium	0.60	U		P
7440-66-6	Zinc	1.5	B		P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB04-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945666

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045666A57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/29/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	3	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FB04-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945666

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045666a57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/29/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB04-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945666

Sample wt/vol: 990 (g/mL) ML Lab File ID: GH045666A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB04-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945666

Sample wt/vol: 990 (g/mL) ML Lab File ID: GH045666A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FB04-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945666

Sample wt/vol: 990 (g/mL) ML Lab File ID: GH045666A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB04-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945666

Sample wt/vol: 1050 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/16/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/17/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.048	U
319-85-7	beta-BHC	0.020	JP
319-86-8	delta-BHC	0.0012	JP
58-89-9	gamma-BHC (Lindane)	0.048	U
76-44-8	Heptachlor	0.048	U
309-00-2	Aldrin	0.048	U
1024-57-3	Heptachlor epoxide	0.048	U
959-98-8	Endosulfan I	0.048	U
60-57-1	Dieldrin	0.095	U
72-55-9	4,4'-DDE	0.095	U
72-20-8	Endrin	0.095	U
33213-65-9	Endosulfan II	0.095	U
72-54-8	4,4'-DDD	0.095	U
1031-07-8	Endosulfan sulfate	0.095	U
50-29-3	4,4'-DDT	0.095	U
72-43-5	Methoxychlor	0.48	U
53494-70-5	Endrin ketone	0.095	U
7421-93-4	Endrin aldehyde	0.095	U
5103-71-9	alpha-Chlordane	0.048	U
5103-74-2	gamma-Chlordane	0.048	U
8001-35-2	Toxaphene	4.8	U
12674-11-2	Aroclor-1016	0.95	U
11104-28-2	Aroclor-1221	1.9	U
11141-16-5	Aroclor-1232	0.95	U
53469-21-9	Aroclor-1242	0.95	U
12672-29-6	Aroclor-1248	0.95	U
11097-69-1	Aroclor-1254	0.95	U
11096-82-5	Aroclor-1260	0.95	U

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

FB04-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix (soil/water): WATER Lab Sample ID: 945666

Level (low/med): LOW Date Received: 06/16/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	33.2	U		P
7440-36-0	Antimony	10.1	B		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	0.52	B		P
7440-41-7	Beryllium	0.32	B		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	59.4	B		P
7440-47-3	Chromium	0.90	U		P
7440-48-4	Cobalt	0.60	U		P
7440-50-8	Copper	1.1	U		P
7439-89-6	Iron	18.9	U		P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	17.3	B		P
7439-96-5	Manganese	0.30	B		P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	61.8	U		P
7782-49-2	Selenium	3.1	U		P
7440-22-4	Silver	0.66	B		P
7440-23-5	Sodium	559	B		P
7440-28-0	Thallium	4.1	U		P
7440-62-2	Vanadium	0.60	U		P
7440-66-6	Zinc	2.2	B		P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB05-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945667

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045667A57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/29/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	140	
67-64-1	Acetone	23	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	1	J
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	3	J
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	2	J
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	2	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FB05-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945667

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045667a57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. _____ Date Analyzed: 06/29/99

GC Column:EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB05-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945667

Sample wt/vol: 910 (g/mL) ML Lab File ID: GH045667A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	2,2'-oxybis(1-Chloropropane)	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	27	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	27	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U
99-09-2	3-Nitroaniline	27	U
83-32-9	Acenaphthene	11	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB05-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945667

Sample wt/vol: 910 (g/mL) ML Lab File ID: GH045667A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	27	U
100-02-7	4-Nitrophenol	27	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	27	U
534-52-1	4,6-Dinitro-2-methylphenol	27	U
86-30-6	N-nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	27	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
86-74-8	Carbazole	11	U
84-74-2	Di-n-butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	11	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
117-84-0	Di-n-octylphthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FB05-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945667

Sample wt/vol: 910 (g/mL) ML Lab File ID: GH045667A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	4.71	6	J
2.		UNKNOWN (BC)	19.36	3	JB
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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB05-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945667

Sample wt/vol: 1040 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/16/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/17/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.048	U
319-85-7	beta-BHC	0.0079	JP
319-86-8	delta-BHC	0.048	U
58-89-9	gamma-BHC (Lindane)	0.048	U
76-44-8	Heptachlor	0.048	U
309-00-2	Aldrin	0.048	U
1024-57-3	Heptachlor epoxide	0.048	U
959-98-8	Endosulfan I	0.048	U
60-57-1	Dieldrin	0.096	U
72-55-9	4,4'-DDE	0.096	U
72-20-8	Endrin	0.096	U
33213-65-9	Endosulfan II	0.096	U
72-54-8	4,4'-DDD	0.096	U
1031-07-8	Endosulfan sulfate	0.096	U
50-29-3	4,4'-DDT	0.096	U
72-43-5	Methoxychlor	0.48	U
53494-70-5	Endrin ketone	0.096	U
7421-93-4	Endrin aldehyde	0.0049	JP
5103-71-9	alpha-Chlordane	0.0015	JP
5103-74-2	gamma-Chlordane	0.048	U
8001-35-2	Toxaphene	4.8	U
12674-11-2	Aroclor-1016	0.96	U
11104-28-2	Aroclor-1221	1.9	U
11141-16-5	Aroclor-1232	0.96	U
53469-21-9	Aroclor-1242	0.96	U
12672-29-6	Aroclor-1248	0.96	U
11097-69-1	Aroclor-1254	0.96	U
11096-82-5	Aroclor-1260	0.96	U

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

FB05-09

Lab Name: COMPUCHEM Contract: ILM04.0

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix (soil/water): WATER Lab Sample ID: 945667

Level (low/med): LOW Date Received: 06/16/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	33.2	U		P
7440-36-0	Antimony	1.8	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	1.9	B		P
7440-41-7	Beryllium	0.10	B		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	10.7	U		P
7440-47-3	Chromium	1.4	B		P
7440-48-4	Cobalt	0.60	U		P
7440-50-8	Copper	1.1	U		P
7439-89-6	Iron	18.9	U		P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	12.4	B		P
7439-96-5	Manganese	0.33	B		P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	61.8	U		P
7782-49-2	Selenium	3.1	U		P
7440-22-4	Silver	0.47	B		P
7440-23-5	Sodium	231	B		P
7440-28-0	Thallium	4.1	U		P
7440-62-2	Vanadium	0.60	U		P
7440-66-6	Zinc	1.1	U		P
	Cyanide	4.7	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: